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GenCore version 5.1.6

OM nucleic - nucleic search, using SW mode!

Run on: June 17, 2005, 19:35:47 ; Search time 968.901 Seconds
(without alignments)

Scoring table: IDENTITY_NUC

Title: US-10-051-307-3

Perfect score: 1346

Sequence: 1 atctttgttggaaaaatttg.....tgttgaatgttttttttttcc 1546

Searched: 6054689 seqs, 3103772919 residues

Total number of hits satisfying chosen parameters: 12109378

Post-processing: Minimum Match 100%
Maximum Match 100%
Listing first 45 summaries

Minimum DB seq length: 0
Maximum DB seq length: 20000000000

Database : Published Applications NA.*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

RESULTS

RESULT 1

US-10-051-307-3

; Sequence 3, Application US/10051307

; Publication No. US2002017095A1

; GENERAL INFORMATION:

; APPLICANT: DAI, ZIYUAN

; APPLICANT: SHI, LIFANG

; APPLICANT: HOOGER, BRIAN S.

; TITLE OF INVENTION: DNA PROMOTERS ISOLATED FROM POTATO AND USE THEREOF

; FILE REFERENCE: 059440/0141

; CURRENT APPLICATION NUMBER: US/10/051,307

; CURRENT FILING DATE: 2005-01-22

; PRIOR APPLICATION NUMBER: 60/263,224

; PRIOR FILING DATE: 2001-01-23

; NUMBER OF SEQ ID NOS: 14

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 3

; LENGTH: 1546

; TYPE: DNA

; ORGANISM: Solanum tuberosum

; FEATURE:

; NAME/KEY: modified_base

; LOCATION: (1248)

; OTHER INFORMATION: a, t, c or g

US-10-051-307-3

SEQUENCE 2118, AP

Sequence 2118, AP

Sequence 334, APP

Sequence 10361, APP

Sequence 4, APP

Sequence 4, APP

Sequence 36321, A

Sequence 389, APP

Sequence 41, APP

Sequence 86607, A

Sequence 7736, AP

Sequence 353, APP

Sequence 109, APP

Sequence 89569, A

Sequence 29028, A

Sequence 571, APP

Sequence 31336, AP

Sequence 13563, A

Sequence 10107, A

Sequence 4061, AP

Sequence 49, APP

Sequence 7737, AP

Sequence 27634, A

Sequence 4067, AP

Sequence 10106, A

Sequence 1260-238-1061

Sequence 47685, A

Sequence 13566, A

Sequence 10104, A

Sequence 806, APP

Sequence 59877, A

Sequence 16245, A

Sequence 14334, A

Sequence 46, APP

Sequence 129989, A

Sequence 24457, A

Sequence 15621, A

Sequence 532, APP

Sequence 5182, AP

ALIGNMENTS

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	1545	99.9	1546	Sequence 3, Appli
2	1545	99.9	1546	Sequence 3, Appli
3	1362.4	88.1	1595	Sequence 1, Appli
4	1362.4	88.1	1595	Sequence 2, Appli
5	1334.4	86.3	1598	Sequence 2, Appli
6	1334.4	86.3	1598	Sequence 371, Appli
7	291.2	18.8	510	Sequence 371, Appli

Qy	361	CATCGAAGTTACATCCGGTACGACCCCATATACGTGCCATCGTAGTCCCCTAGGGCAT	420	Db	1485	ATACCTCTAAACTAAATGCTCATACAACTAAATAACTTAAAGTAAAGAAA	1544
Db	409	CATCGAAGTTACATCCGGTACGACCCCATATACGTGCCATCGTAGTCCCCTAGGGCAT	468	Qy	1496	TTGCAGATTAAATGGCCAAATAGCTATGGTCAAGTGGTCTCTTC	1546
Qy	421	CAATGACCACCTTGCCTCATCGAACGCTCATCGTAGTCCCCTAGGGCAT	480	Db	1545	TTGCAGATTAAATGGCCAAATAGCTATGGTCAAGTGGTCTCTTC	1595
Db	469	CAATGACCACACTTGGCCCATCGAACGCTCATCGTAGTCCCCTAGGGCAT	527				
Qy	481	CCAGAGCGGTGATGGACAGTGTGGTACCTCGATAGTGGCAGCATAGTGAAGTCA	540		RESULT 4		
Db	528	CCAAAACGATGTGAGTGTGGTACCTCGATAGTGGCAGCATAGTGAAGTCA	587		US-10-903-948-1		
					Sequence 1, Application US/10903948		
					Publication No. US20050005324A1		
					GENERAL INFORMATION:		
					APPLICANT: DAI, ZIYU		
					APPLICANT: SHI, LIUPANG		
					APPLICANT: HOOKER, BRIAN S.		
					TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF		
					FILE REFERENCE: 059440/0141		
					CURRENT APPLICATION NUMBER: US/10/903, 948		
					CURRENT FILING DATE: 2004-07-30		
					PRIOR APPLICATION NUMBER: US/10/051, 307		
					PRIOR FILING DATE: 2002-01-22		
					PRIOR APPLICATION NUMBER: 60/263, 224		
					PRIOR FILING DATE: 2001-01-23		
					NUMBER OF SEQ ID NOS: 14		
					SOFTWARE: Patentin Ver. 2.1		
					SEQ ID NO: 1		
					LENGTH: 1595		
					Query Match	88.1%	Score 1362.4;
					Best Local Similarity	94.1%	Pred. No. 5.4e-287;
					Matches 1460;	Conservative 0;	Mismatches 82;
					Indels 9;	Gaps 4;	
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Db	588	CAAAAGCAAGAGGGAAACAAACAGAGTCTCAAGTAGGCCATGTTGTTGAAATT	647	Db	49	ATCTTGTTGAAAAATTGCCAAACAGTAGGCCATGTTGCTGGTGCACATT	108
Qy	601	ATATGTTGACAAATTATTGGTACTTTATATAGGATATGGCTTTGGCACTA	660	Qy	61	ATGGTTGTCCTCAAAATGGTGTACAGGATGGTACATCCCTCGGTACTCTTAA	120
Db	648	ATATGTTGACAAATTATTGGTACTTTATAGGATATGGCTTTGGCACTA	707	Db	109	ATGGTTGTCCTTCATAGTGTGTACAGGATGGTACATCCCTCGGTACTCTTAA	168
Qy	661	TGGATATTAACTGGTATTATAACAAATCATACATTGACTAACTTAA	720	Qy	121	TAGGACATTACCACTTATATTGGTGTGCAATTTCCTCCACTTGTG	180
Db	708	CGGATATTAACTGGTATTATAACAAATCATACATTGACTAACTTAA	767	Db	169	CAGGGCATTCACCAATTATTTGGTGTGCAATTTCCTCCACTTGTG	228
Qy	721	TACAATATGTTGGTAACAGCTGGCAAATGTATAAGGCCCTAAATTAA	780				
Db	768	TACAATATGTTGGTAACAGCTGGCAAATGTATAAGGCCCTAAATTAA	827				
Qy	781	TATTTATGAAATAGACTATAGTAACTGTAACTTGTGTGATTA	840				
Db	828	TATTTATGAAATAGCTTACAGTAACTGTAACTTGTGTGATTA	887				
Qy	841	ATAAACTCTGTATGTGACGGAACTTTCTAAACTAAATTTAGGATTT	900				
Db	888	ATAAACTCTGTAACTGTGACGGAACTTTCTAAACTAAATTTAGGATTT	947				
Qy	901	ATATTTTCTGGGCCAAAGTTCTGCAACTTATCATGCCATTACTTGT	960				
Db	948	CAGATTTTCTGGGCCAAAGTTCTGCAACTTATCATGCCATTACTTGT	1007				
Qy	961	TCTAGCCCTCTAGGTAAGCTGGTTGAACATAAAATGAAAGTAAATT	1020				
Db	1008	TCTAGCCCTCTAGGTAACGTTGACATGAAATAAAATGAAAGTAAATT	1067				
Qy	1021	AG--TTTTTTCATATACCTCGTATGGTCACTTGTGAAATATCAA	1077				
Db	1068	AGTTTTTTCATATACCTCGTATGGTCACTTGTGAAATATCAA	1127				
Qy	1078	ATCATCTGATTTAAATCATAACTATCTGGCATGGAAACTCTATGCT	1137				
Db	1128	ACCATCTGATTTAAATCATAACTATCTGGCATGGAAACTCTATGCT	1184				
Qy	1138	GCAAGTGTGTTGATTTCTAAGTGTGATTTGACAACTTGTGCAAAAT	1197				
Db	1185	GCAAGTGTGTTGATTTCTAAGTGTGACAACTTGTGCAAAAT	1244				
Qy	1198	ATTAAGAGAACCCCTATTGTGACAAAGTCATAAA-TATTTAAATCAT	1255				
Db	1245	ATTAAGAGAACCCCTATTGTGACAAATCATGCTTATT	1304				
Qy	1256	TATTTTACGATCGGAGCATGATCACTTAATTAATGAGGAATTGAT	1315				
Db	1305	TATTTTACGATCGGAGCATGATCACTTAATTAATGAGGAATTGAT	1364				
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Db	1365	CGACAACGTCATGAGTTATCTGATCAGTCATCCCTAACGTTGCT	1424				
Qy	1376	AGAGAAACAACTGGATCATGATGATAATTAGTTCCCTATCTCTTAA	1435				
Db	1425	AGAGAAACAACTGGATCATGATGATAATTAGTTCCCTATCTCTTAA	1484				
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Qy 839 ATATACTCTGTATCGGAACTTCTCTAAACTAATATAAAGCAGTATT 898
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 Db 1128 AAACCATTCCTGATTAAATCATAAACCAATTGCTTAATGGGAAGTCTATC 1186

Qy 1136 GTGACAAGTGTGTTGATTTCTAAGTCGATTGATGGTCAACCTTACTGCAATAT 1195
 Db 1187 GTGCAAGTGTGTTGAACTTCTAGCTAGTTGATGGTCAACCTTACTGCAATAT 1245

Qy 1196 CTATTAAAGAACCCCTATTGCAAAGTCATAAA--TATTTAATATCATNCCTTA 1253
 Db 1246 CTATTAAAGAACCCCTATTGTCGCAATATCATTTAAGAACCCCTATTCACTTA 1305

Qy 1254 TTATTTTACATCGATGGCATGGATACATTACTAAATAATGGAAAGGATG 1313
 Db 1306 TTATTTTACATCGATGGCATGGATATTACTAAATAATGGGAGGATG 1365

Qy 1314 ATCGACAAGTCATCAAGCTTATCGCTGATCCACATCCTAACGTTGATGGCTCTT 1373
 Db 1366 ATCGACAAGGCCATCAAGCTTATCGCTGATCCACATCCTAACGTTGATGGCTCTT 1425

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Qy 1764 AATTGCGGAAATTAATGGGCAAATTAATGTCATGGTGAATGGCTTTC 1765

Qy 1824 AATTGCGGAAATTAATGGGCAAATTAATGTCATGGTGAATGGCTTTC 1823

Qy 1882 AATTGCGGAAATTAATGGGCAAATTAATGTCATGGTGAATGGCTTTC 1881

Qy 1939 AATTGCGGAAATTAATGGGCAAATTAATGTCATGGTGAATGGCTTTC 1938

Qy 1988 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 1987

Qy 2047 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 2046

Qy 2105 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 2104

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Qy 6837 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 6836

Qy 7005 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 7004

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Qy 7637 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 7636

Qy 7795 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 7794

Qy 7953 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 7952

Qy 8111 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 8110

Qy 8269 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 8268

Qy 8427 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 8426

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Qy 9059 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 9058

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Qy 9849 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 9848

Qy 9907 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 9906

Qy 9965 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 9964

Qy 10183 AATTGCGGAAATTAATGGTGAATGGTGAATGGCTTTC 10182

Best Local Similarity 78.1%; Pred. No. 2.2e-53;
Matches 350; Conservative 0; Mismatches 98; Indels 0; Gaps 0;

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Qy 1019 TTAG---TTTTTTTCATTTAAGCTGATCATTCTGATGAAATATAC 1075
Db 1063 TTAGTTTTTTTCATTTAAGCTGATCATTCTGATGAAATATAC 1127
Qy 1076 AAATCATTTCTGATTTAAATCATACTATTCTGATGATGGACGCTTATGGTATC 1135
Db 1128 AAACCATTTCTGATTTAAATCATACCTTCTGCTTAAGGAACTTAT-GTGATC 1186
Qy 1135 GTGACAGCTTGTGATTATTCTAAGTCTGATGGACTACACTTTAGTGCATAAT 1195
Db 1187 GTGGCAAGTGTGATTCTGATGGTCAACTTTAGTGCATAAT 1245
Qy 1196 CTATTTAAAAGAAAGTCATAAA-TATTTAAATCATNCCTTA 1253
Db 1246 CTATTTAAAAGAAACCCCTATGTCATAAAAGAAACCCCTATCCTTA 1305
Qy 1254 TTATTTTACGATGGGATGATACTTAAATAATTGAGGAAATG 1313
Db 1306 TTATTTTACGATGGGATGATACTTAAATAATTGGGAAATG 1365
Qy 1314 ATCGACAAGTCATCAAGCTTACGCTTACGTCATCCCTAACGTTACTGCTGCCT 1373
Db 1366 ATCGACAAGTCATCAAGCTTACGCTTACGTCATCCCTAACGTTACTGCTGCCT 1425
Qy 1374 TTAGGAAACAAAGTGATGATAATTAGTTCTCCCTATCCTPATAATPCTAT 1433
Db 1426 TTAGGAAACAAAGTGATGATAATTAGTTCTCCCTATCCTPATAATPCTAT 1485
Qy 1434 ATATACCTTAAGTAATGCTAACTAACACAAATAACTTAACTGTTCTTAAGA 1493
Db 1486 CTATGCCCTTAACTAACATCAACACAAATAACTTAACTGTTCTTAAGA 1545
Qy 1494 AATTGAGGATAATGGGCAATAAGCTATGGTGAAGTGTGGCTTTTC 1546
Db 1546 AATTGAGGATAATGGGCAATAAGCTATGGTGAAGTGTGGCTTTTC 1598

RESULT 8
US-09-938-842A-2118/c
; Sequence 2118, Application US/09938842A
; Patent No. US20020160378A1
; GENERAL INFORMATION:
; APPLICANT: Harper, Jeff
; APPLICANT: Krepis, Joel
; APPLICANT: Wang, Kun
; APPLICANT: Zhu, Tong
; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
; FILE REFERENCE: SCRIP1300-3
; CURRENT APPLICATION NUMBER: US/09/938,842A
; CURRENT FILING DATE: 2001-08-24
; PRIOR APPLICATION NUMBER: US 60/227,866
; PRIOR FILING DATE: 2000-08-24
; PRIOR APPLICATION NUMBER: US 60/264,647
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/300,111
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 5319
; SEQ ID NO 2118
; LENGTH: 735
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-09-938-842A-2118

Query Match 13.4%; Score 207.2; DB 9; Length 735;
Best Local Similarity 64.6%; Pred. No. 5.6e-35;
Matches 346; Conservative 0; Mismatches 178; Indels 12; Gaps 2;

Qy 43 GACCTGGTGCACAAATTGGTGTCCCAATGTCAGATGTTACATCCCT 102
Db 535 GACGTGGTGTACACAGTATGGTTGTCGAAATACGTTACGGGTGTTGCAATCCAC 476
Qy 103 CGGTACTTTAACGTTAGGACATACCAATTATTTGGCGTGCATTGAAATGCGT 162

Query Match 18.8%; Score 291.2; DB 17; Length 510;
Best Local Similarity 64.6%; Pred. No. 5.6e-35;
Matches 346; Conservative 0; Mismatches 178; Indels 12; Gaps 2;

Qy 271 LENGTH: 510
; TYPE: DNA
; ORGANISM: Lycopersicon esculentum
US-10-341-961A-371
Query Match

Db 475 CTGGGGCTCTCAAACACGTTGGACATTTGTCCTGGTATAGTATCCGAT 416
 Qy 163 GGGATTCCTCCACTTGGGAAAGTCATCGGTATATTAAATCCATCAA 222
 Db 415 GGAGTT-----GAACTAGTTGGCTAAACTCATAGTTATCCATCGA 365
 Db 223 CTAAGAAATGTCAGGAAATCTAAGTTGTCAGGTTACATAGTATCCGAT 416
 Qy 364 CAAGTGGAGATATGTTAGCTGAGAATCTGTTAAAGGTACTCGCAACG 305
 Db 364 CAAAGTGAGATACTGTTAGCTGAGAATCTGTTAAAGGTACTCGCAACG 342
 Db 304 TGTTCGCGGTTAACCCACCGGACACCAAAATCACCAGTCATGC 245
 Qy 283 TGTTCGCGGTTAACCCACCGGACACCAAAATCACCAGTCATGC 402
 Db 304 TGTTCGCGGTTAACCCACCGGACACCAAAATCACCAGTCATGC 185
 Qy 343 AGGAACCTCTACAGGACCATGAGAATTACATCCGATCGGCTACCTCGATTCG 462
 Db 244 ATCGGCCACGACCTGGAGACTGAGTCAACCTGCGGATTCG 68
 Db 403 TAGTGCCTCTAGGGCATCATGACCCACGTTGGCTCGATGAGCTGGCACCGC 125
 Qy 184 TAGTGCCTCTAGGGCATCATGACCCACGTTGGCTCGATGAGCTGGCACCGC 125
 Db 463 CTATCGGGCTCGATGCTGGCCAGGGTGTATGGACAGTGTGGTACCTCGATAGTGG 522
 Db 124 C---AGGGCTGGCTGGAGATGAGCTGGAAAGAGATCTCAAG 578
 Qy 523 CAGCTAAAGTGAAGTCACAAAGGAGAAACAAAGGAGAAAGATCTCAAG 67
 Db 67 CGGCTGTTGGCTGGAGATGAGCTGGAAAGTGGAAATATGAGACCAAG 12

Qy 343 AGGAACCTCTACAGGACCATGAGAATTACATCCGATTCG 402
 Db 244 ATCGGCCACGACCTGGAGACTGAGTCAACCTGCGGATTCG 185
 Qy 403 TAGTGCCTCTAGGGCATCATGACCCACGTTGGCTCGATGAGCTGGCACCGC 462
 Db 184 TAGTGCCTCTAGGGCATCATGACCCACGTTGGCTCGATGAGCTGGCACCGC 125
 Db 463 CTATCGGGCTCGATGCTGGCCAGGGTGTATGGACAGTGTGGTACCTCGATAGTGG 522
 Db 124 C---AGGGCTGGCTGGAGATGAGCTGGAAAGAGATCTCAAG 578
 Qy 523 CAGCTAAAGTGAAGTCACAAAGGAGAAACAAAGGAGAAAGATCTCAAG 67
 Db 67 CGGCTGTTGGCTGGAGATGAGCTGGAAAGTGGAAATATGAGACCAAG 12

RESULT 10
 US-09-770-445-334/C ; Sequence 334, Application US/09770445
 ; Patent No. US20020023281A1
 ; GENERAL INFORMATION:
 / APPLICANT: Gorlach, Jorn
 / APPLICANT: An, Yong-Qiang
 / APPLICANT: Hamilton, Carol M.
 / APPLICANT: Price, Jennifer L.
 / APPLICANT: Raines, Tracy M.
 / APPLICANT: Yu, Yang
 / APPLICANT: Rameka, Joshua G.
 / APPLICANT: Page, Amy
 / APPLICANT: Matthew, Abraham V.
 / APPLICANT: Ledford, Brooke L.
 / APPLICANT: Woessner, Carol P.
 / APPLICANT: Haas, William David
 / APPLICANT: Garcia, Carlos A.
 / APPLICANT: Kricher, Maija
 / APPLICANT: Slader, Ted
 / APPLICANT: Davis, Keith R.
 / APPLICANT: Allen, Keith
 / APPLICANT: Hoffman, Neil
 / APPLICANT: Hurlburt, Patrick
 / TITLE OF INVENTION: Expressed Sequences of Arabidopsis
 / TITLE OF INVENTION: Expressed Sequences of Arabidopsis
 / Publication No. US20020023281A1
 / Sequence 334, Application US/09770445
 / CURRENT APPLICATION NUMBER: US 09/938,842A
 / CURRENT FILING DATE: 2001-08-24
 / PRIOR APPLICATION NUMBER: US 60/227,866
 / PRIOR FILING DATE: 2000-08-24
 / PRIOR APPLICATION NUMBER: US 60/264,647
 / PRIOR FILING DATE: 2001-01-16
 / PRIOR APPLICATION NUMBER: US 60/300,111
 / PRIOR FILING DATE: 2001-06-22
 / NUMBER OF SEQ ID NOS: 5379
 / SEQ ID NO: 2118
 / LENGTH: 735
 / TYPE: DNA
 / ORGANISM: Arabidopsis thaliana
 / US-09-938-842A-2118

Query Match 13.4%; Score 207.2; DB 11; Length 735;
 Best Local Similarity 64.6%; Pred. No. 5.6e-15; DB 9; Length 950;
 Matches 346; Conservative 0; Mismatches 178; Indels 12; Gaps 2;
 SEQ ID NO: 334
 LENGTH: 950
 / ORGANISM: Arabidopsis thaliana
 / US-09-770-445-334

Query Match 13.4%; Score 207.2; DB 9; Length 950;
 Best Local Similarity 64.6%; Pred. No. 6.3e-35; DB 9; Length 950;
 Matches 346; Conservative 0; Mismatches 178; Indels 12; Gaps 2;
 Qy 43 GACCTTGGTGGCAACAAATATTGTCCTCAAATGCTGATCATCCCTC 102
 Db 535 GACCGTTGCTGACACTTGGTCTGTAATAGTCAACGGTGTGCTCAC 476
 Qy 103 CGGTTACTTAACTGTTGAGACATCACCATTATTTGCGTGAATGCGT 162
 Db 475 CTGGGGCTCTAACCTGGTGGCTAACATGCTGCGGTATGCTGCGGT 416
 Qy 163 GGCATTCCTCACTGGTGGAAAGTCATCGGTATATTAAATCCATCAA 222
 Db 415 GGCAGTTC-----GAACTAGTTGGTAAACTCATAGGTATGTAATCCATCGA 365

Qy 103 CGGACTTAAAGCTGACTAGGACATTCAACCATTATACTGGCTGCAATTGAAATTGGCT 162
 Db 483 CTGGGGCTCAACAGTGTGGACATTGTGCTTATGTTGCTGCTAATGATCCGAT 424

Qy 163 GGCATTCCCTCACTTGGATTAGTGGGGCAAGTCATCGGTTATAATTCATCA 222
 Db 423 GGCACCTC-----GAACTAGTGGTAAACTCCATTAGGTATGTTAATCCTGA 373

Qy 223 CTAAGAAATGTCAGGAAATCTAAGTGTGAACTGGCTAGCTGGTAGG 282
 Db 372 CAAGTGAGATACTGTTAGAAGTCAAGTGTGAACTGGCTAGCTGGCAAAG 313

Qy 283 TGTGTCGGTTTACCCACCCGGTGCATCTGCAGAACACCAATACCAAGTCATC 342
 Db 312 TGTGTCGGTTTACCCACCCGGTGCATCTGCAGAACACCAATACCAAGTCATC 253

Qy 343 AGGAACCTTACCCACCATCGAAGTTACATCCAGTAGCAGCCCATATACGTCATC 402
 Db 252 ATCGCCCACTGACCTGAGGTCAAGTTCAATTTGGTCCATCCAAATCGTGC 193

Qy 403 TAGTGCCTCATGGCCTATGAACTGCCCCATTTGGCTCATGAGACCTGGCACCC 462
 Db 192 TAGTGCCTGGCGACATATGCTCTCATGATTCGACATTAAGCTGGCACCTC 133

Qy 463 CTATGGCCGTGATGCTGGCCAGGGTGTATGGACAGTGTGTCGTACTCGATA 522
 Db 132 C---AGGGCTTGCGCACGCCACAGGTGAACATCGTGTGATGGTG 76

Qy 523 CAGGATAAGTGAAGTCAAAAGGAGAGGGAAACAAAGAAGATCTCAAG 578
 Db 75 CGGTGTTGGGTGGAGATGAGCAAAAGTCGGAAATATGAGATGAGCAAG 20

RESULT 11
 US-10-424-599-103619/c
 ; Sequence 103619, Application US/10424599
 ; Publication No. US2004031072A1
 ; GENERAL INFORMATION:
 ; APPLICANT: La Rosa, Thomas J
 ; APPLICANT: Kovacic, David K
 ; APPLICANT: Zhou, Yilun
 ; APPLICANT: Cao, Yongwei
 ; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 ; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 ; FILE REFERENCE: 38-21153223(B)
 ; CURRENT APPLICATION NUMBER: US/10/424,599
 ; CURRENT FILING DATE: 2003-04-28
 ; NUMBER OF SEQ ID NOS: 285684
 ; SEQ ID NO 103619
 ; LENGTH: 909
 ; TYPE: DNA
 ; ORGANISM: Glycine max
 ; FEATURE:
 ; OTHER INFORMATION: Clone ID: PAT_MRT3847_64586C.1

Query Match 11.8%; Score 182.4; DB 18; Length 909;
 Best Local Similarity 61.4%; Pred. No. 1.6e-29;
 Matches 323; Conservative 0; Mismatches 201; Indels 6; Gaps 2;

US-10-424-599-103619

Qy 1 ATCTTGTTGAAATAATGGAAAGAACGTTAGGACCATGGACCTTGGTGCACAT 60
 Db 628 ACCRTGCTGAAAGATCGAAATCATGTTGGCAAGCTTGGAAACAT 569

Qy 61 ATGGTGTGCTCCAAATGTTGTAACAGGATTGTTACATCTCCGGTAAAGCTGAC 120
 Db 568 ACTGTCGGTTGGAGACAGTGTGCAAGGTTGGCTTGTGCTTCAGCTC 509

Qy 122 TAGGACATTCACCAATTATAATTGGCGTGGCATTCCTCCACATG 180
 Db 508 TAGGGCAGTGTGGTTAAATTCGGTAAAGTGTGCACTG 452

Qy 181 GATTAGTCGGGGCAAAGTCATGGTAAATTAAATCCATCAACTAAGAAATGTC 240
 Db 403 TAGGATTGGTCAAAACCCATGGCACATTGAACTGGTCAAGTCAAAAGA 344

Db 451 ---AGGTGACTAAAGTCATGGCACCTTAACCGTGCACAGGGAGATGTGAAAGA 395
 Qy 241 AATCTTAAGTGTGTAAGTGGCTACTGGCTTGGCTTACCTTACCC 300
 Db 394 AGTCCTAAATTGTTGAAACCGTTCAGGCTTATTGCAAGGGTTCAGGCT 335

Qy 301 ACCGGTGCAGTGGACAGGACCCACATCACAGTCATGCAGAACCTCTACAGGCAC 360
 Db 334 AAGTTTGGAGTGGAGAACCCCGGCAGTCAGGCTCTGGCATCACGGGGCGCGAAC 275

Qy 361 CATGGAGTTACATCAGTAGCAACCCATATACTGGCATCTGATGTCCTAGGGAT 420
 Db 274 CGTGAAAGTTGACCGGGTTGGCCCTTCCTGCAGGACAGT 215

Db 421 CAAAGCCTTACGGTTGGCTCTGAGACGTCGGCCACCCGGCTTACGGGTCTATGCGT 480
 Db 214 CCACGGACCTGATGACTGGCCGGTTATTGCAAGGCCACAGCACAGCGAG 155

Qy 481 CCCAGACCTGTTGACAGTGGCTACCTGGTACATGGATGTCAGTGGCAAGATACTGAA 536
 Db 154 CCCAGACACTGTATGTCATGGTTGATTCAGTTCAAACTTGGCATPATGCGAA 99

RESULT 12
 US-10-636-396-4/c
 ; Sequence 4, Application US/10636396
 ; Publication No. US2004003971A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bidney, Dennis L.
 ; APPLICANT: Crasta, Oswald R.
 ; APPLICANT: Duvick, Jon
 ; APPLICANT: Hu, Xu
 ; APPLICANT: Lu, Guihua
 ; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 ; Genes and their Uses
 ; FILE REFERENCE: 571-8-90
 ; CURRENT APPLICATION NUMBER: US/10/636,396
 ; PRIORITY APPLICATION NUMBER: US/09/589,733C
 ; PRIORITY FILING DATE: 2003-08-07
 ; PRIORITY APPLICATION NUMBER: US/09/589,733C
 ; PRIORITY FILING DATE: 2000-06-08
 ; PRIORITY APPLICATION NUMBER: 60/1140,646
 ; PRIORITY FILING DATE: 1999-06-23
 ; PRIORITY APPLICATION NUMBER: 60/162,904
 ; PRIORITY FILING DATE: 1999-11-01
 ; NUMBER OF SEQ ID NOS: 41
 ; SOFTWARE: FastSEQ For Windows Version 3.0
 ; SEQ ID NO 4
 ; LENGTH: 875
 ; TYPE: DNA
 ; ORGANISM: Helianthus annuus
 US-10-636-396-4

Query Match 11.7%; Score 180.6; DB 18; Length 875;
 Best Local Similarity 60.9%; Pred. No. 3.9e-29;
 Matches 332; Conservative 0; Mismatches 204; Indels 9; Gaps 2;

Qy 1 ATCTTGTTGAAATAATGGAAAGAACGTTAGGACCATGGACCTTGGTGCACAT 60
 Db 577 ATCTGGCTGAAACCTTGTATAATCGTTGCTTCCAAATTTCAGGTGCAACAT 518

Qy 61 ATGGTGTCTCCAAATGTTGACAGGTTGAACTCTCCGGTACTTTAATGTC 120
 Db 517 ATCTGGCTGAAATGTTGACAGGTTGAACTCTCCGGTACTTTAATGTC 458

Qy 121 TAGGACATTCACCAATTATAATTGGCTGCAATTGCAAGGTTATGCAAGCCATTCTCCACACTG 180

Db 457 CAGGACACTGGCATGATTCGGTACATGAGATACCCGGSTGACCC-----AT 404

Qy 241 AATCTAAGTTGTTGAACTGGTCCAGGGTACTCGGTAGGGTTGGCGGTTAACCC 300
 Db 343 AATCAAGATTGTTGAACTGGTCAAGCTGACTCGGCAATTGTCGGTGGGACAT 284
 Qy 301 ACCGGTCACTGCAAGGACACCAAAATCAGGAACTCTACCGCAC 360
 Db 283 AGTTTGCACTGGGAACTGGGAACTGGTCAACCTGCTGCCAGAAC 224
 Qy 361 CATCGAAGTTAATCCAGTACATGGCCATAGGGCTTAATGGGTGCACTGGCAT 420
 Db 223 CATCAAAGTTGCAATTGGGCAATAGGGCTCCATGGGCTCATAGGGCAGGG 164
 Qy 421 CRATGACCCACAGTTGGCTCCTATCGAGACGTGGCAACGGCTATGGGTGATGCTG 480
 Db 163 TTAAGAACGAGCTTGGCTGAGTAGTGTGGGCCAC - AGGACACGGACAG 107
 Qy 481 CCCAGACGGTGTATGGACAGCTGTGCGTACCTCGATAGTGGCAGATAATGTAAGTCA 540
 Db 106 CCCAAACGGTGTATGGACAGCTGTGCAATAGTGAACACGGTGTATGGTAAATGAA 47
 Qy 541 CAAA 545
 Db 46 AAAGA 42

RESULT 13
 US-10-636-026-4/c
 / Sequence 4 , Application US/10636026
 / Publication No. US20040111761A1
 / GENERAL INFORMATION: US2004031072A1
 / APPLICANT: Bidney, Dennis L.
 / APPLICANT: Crasta, Oswald R.
 / APPLICANT: Duvick, Jon
 / APPLICANT: Hu, Xu
 / APPLICANT: Lu, Guihua
 / TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 / TITLE OF INVENTION: Genes and their Uses
 / FILE REFERENCE: 5718-90
 / CURRENT APPLICATION NUMBER: US/10/636.026
 / CURRENT FILING DATE: 2003-08-07
 / PRIOR FILING DATE: US/09/589,733C
 / PRIOR APPLICATION NUMBER: 60/140,646
 / PRIOR FILING DATE: 1999-06-23
 / PRIOR APPLICATION NUMBER: 60/162,904
 / PRIOR FILING DATE: 1999-11-01
 / NUMBER OF SEQ ID NOS: 41
 / SOFTWARE: Fast-SEQ for Windows Version 3.0
 / SEQ ID NO 4
 / LENGTH: 875
 / TYPE: DNA
 / ORGANISM: Helianthus annuus
 / US-10-636-026-4

Query Match 11.7%; Score 180.6; DB 19; Length 875;
 Best Local Similarity 60.9%; Pred. No. 3.9e-29; Mismatches 204; Indels 9; Gaps 2;
 Matches 332; Conservative 0; Mismatches 204; Indels 9; Gaps 2;

Qy 1 ATCTTGTGTTGAAAAATGGAAAGAACGAGGACCAATGGACCTTGGTCAACAT 60
 Db 577 ATCTGGTGTGTTGAAAAACCTGGTAAATCTAGTGGTCCAAATTCCAGGTGCAACAT 518
 Qy 61 ATGGTGTCCCTCCAATGGTGTGAACTACAGGATTGTTAACGGTCACTGGAC 120
 Db 517 ACTGATGAGTTGTGAACTGGGCAAGGGTATTGCACTGGGAACTCA 458
 Qy 121 TAGGACATTCACCATTAATTTGGTGTGCAATTCCCTCCACATG 180
 Db 457 CAGGACATGGCCTGACATGGTGTGCAATTGGTGTGCACTGGAC 404
 Qy 181 GATTAGTGGGGAAAGGATCTGGTATTAATCCAACTAAAGAATGTCAGA 240
 Db 403 TAGAATGGGTCTAAACACCATGGCACATGAACTGGCCAAAGAAATGTCAGA 344

Qy 241 AATCTAAGTTGTTGAACTGGTCCAGGGTACTCGGTAGGGTTGGCGGTTAACCC 300
 Db 343 AATCAAGATTGTTGAACTGGTCAAGCTGACTCGGCAATTGTCGGTGGGACAT 284
 Qy 301 ACCGGTCACTGCAAGGACACCAAAATCAGGAACTCTACCGCAC 360
 Db 283 AGTTTGCACTGGGAACTGGGAACTGGTCAACCTGCTGCCAGAAC 224
 Qy 361 CATCGAAGTTAATCCAGTACATGGCCATAGGGCTTAATGGGTGCACTGGCAT 420
 Db 223 CATCAAAGTTGCAATTGGGCAATAGGGCTCCATGGGCTCATAGGGCAGGG 164
 Qy 421 CRATGACCCACAGTTGGCTCCTATCGAGACGTGGCAACGGCTATGGGTGATGCTG 480
 Db 163 TTAAGAACGAGCTTGGCTGAGTAGTGTGGGCCAC - AGGACACGGACAG 107
 Qy 481 CCCAGACGGTGTATGGACAGCTGTGCGTACCTCGATAGTGGCAGATAATGTAAGTCA 540
 Db 106 CCCAAACGGTGTATGGACAGCTGTGCAATAGTGAACACGGTGTATGGTAAATGAA 47
 Qy 541 CAAA 545
 Db 46 AAAGA 42

RESULT 14
 US-10-424-599-36321/c
 / Sequence 36321 , Application US/10424599
 / Publication No. US2004031072A1
 / GENERAL INFORMATION: US2004031072A1
 / APPLICANT: La Rosa, Thomas J.
 / APPLICANT: Kovacic, David K.
 / APPLICANT: Zhou, Yihua
 / APPLICANT: Cao, Yongwei
 / TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 / TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement
 / FILE REFERENCE: 38-21 (53223)B
 / CURRENT APPLICATION NUMBER: US/10/424,599
 / CURRENT FILING DATE: 2003-04-28
 / NUMBER OF SEQ ID NOS: 285684
 / SEQ ID NO 36121
 / LENGTH: 1956
 / TYPE: DNA
 / ORGANISM: Glycine max
 / FEATURE:
 / NAME/KEY: unsure
 / LOCATION: (1)-(1956)
 / OTHER INFORMATION: unsure at all n locations
 / FEATURE:
 / OTHER INFORMATION: Clone ID: PAT_MRN3847_132800C.1
 / US-10-424-599-36321

Query Match 11.1%; Score 171.6; DB 18; Length 1956;
 Best Local Similarity 59.8%; Pred. No. 5.3e-27; Mismatches 0; Indels 209; Gaps 2;
 Matches 329; Conservative 0; Mismatches 0; Indels 12; Gaps 2;

Qy 39 CATGGACCTTGTGGTGAACATATGGTGTCTCCAAATGGTGTCAAGGATTGGTACAT 98
 Db 1290 CCTTGCCCATGGTGAACGAAATCTGTCATTCGTTAAACAGTGGGGTTGTGCAAT 1231
 Qy 99 CCTCCGGTACTTAAAGTGTGCAATTCCGTTGTCATGAAAT 158
 Db 1230 CCCCAAGGTGCCTTAATGGCCCGGACTGGCCATTGATCACTGGTCAACTGAT 1171
 Qy 159 GCGTGGCATTTCCTCCACITGGATTAGTCGGGGAAAGTCATCGGTATTAATCTCA 218
 Db 1170 TTGTGACACCAACCGG-----TTAGGGTAAAGTGTGAACTGGCC 1120
 Qy 219 TCAACTAAAGAATGTCCTCCGAAGAACTAAAGTGTGAAACTGGTGTGCACTGGGT 278
 Db 1119 TCCACCAAAGAGATGTCGTAGAAATCTGGTCCAAATGGTCAACGGAAATTCGGCA 1060

Qy	279	AGGTGTGTGGGTTCACCCACGGGACCAACATCGTC 338	Db	421	GCACCCGGCGCTCGGGAGAAAGTCATCGTCATGTA 362
Db	1059	AGTGTGTGGAGGACCCCGACCTGGCAATGCGTCTCCGT 1000	Qy	226	AAGAAATCTCCGAAATCTAAGTTGTTGAACTCGCTAGGTGT 285
Qy	339	ATGCGAAGACTCTAACCGACCATCGAAGTTACATCCAGTACGACCCATTATAGTGGC 398	Db	361	GGGAGATTCGAGATGCGATGCTGACTGTTGCT 302
Db	999	TGGAGCGCAGCCGGCGCCATCAAGTGGCGCCCATATAGGCC 940	Qy	286	TGGCGGTTAACCCACCGGACACCCACAAATCACCGTCATGAC 345
Qy	399	ATCGTAGTCGCCCTTGGCGCATATGACCAACGTTGGCTCGATCGAACAGTGGCC 458	Db	301	TGGAGGCTGCGGTAACCGCGACAGCGCGGACTGGCGC 242
Db	939	ATGCGATGTCGCCGGTCAACCCAGGGTTCACGTCAGCGGGCT 880	Qy	346	AACCTCTACCGACACATCGAAGTACATCCGATGACCCCATATACGTGCGCTACGTAG 405
Qy	459	CCGCTATGGGTGATGGTGGCCAGCGTGTGTTGCACTCTGATA 518	Db	241	GCCCGTGGCCGCTGCGCTGCGCCCGCCACGCGCCCGCC 182
Db	879	CCACCCGAGCTCGCCGGCCACACCGTGTGAGATCTGAAAG 823	Qy	406	TGCCCTTGGGCTCATGACCGTGTGAGGTCGATCGCC 465
Qy	519	GTGGCAGCATTAAGTGAAGACTCACAAAGGAGAACGAGATCTCAAG 578	Db	181	TGCCGGCGGGCACGCTGATCACCCCTGTGCGCCGGTCAGTGGCTGCGCC 122
Db	832	TGCGAGCATGTATGTGTTGCAAGTAAAGCAACGTTAGAGAGACAGTGGCAAG 763	Qy	466	TCCGGGTCGATGCTGGCCAGACGGTGTGAGCTGTTGCTGAACTGTTGCGC 525
Qy	579	TAGCCCATCT 588	Db	121	ACGGACGGCTGCGCCACACGGTGAATGGCATGGTGGGG 62
Db	762	TAAACCATTT 753	Qy	526	CATTAAGTCAGTCACAAAGGAGAACGGAGA 58
Db	61	CCTTCGGCGCCGGCGGGAGAGAGGGAAAGGGGA 29			
RESULT 15					
US-10-259-165-389/C					
Sequence 389, Application US/10259165					
; Publication No. US20030135888A1					
; GENERAL INFORMATION:					
; APPLICANT: Zhu, Tong					
; APPLICANT: Wang, Xun					
; APPLICANT: Chang, Hur-bong					
; APPLICANT: Briggs, Steven P.					
; APPLICANT: Cooper, Bret					
; APPLICANT: Glazebrook, Jane					
; APPLICANT: Goff, Stephen A.					
; APPLICANT: Katagiri, Fumiaki					
; APPLICANT: Kreps, Joel					
; APPLICANT: Moughamer, Todd					
; APPLICANT: Provart, Nicholas					
; APPLICANT: Rice, Darrell					
; TITLE OF INVENTION: GENES THAT ARE MODULATED BY POSTTRANSCRIPTIONAL GENE SILENCING					
; FILE REFERENCE: 700310-NP					
; CURRENT APPLICATION NUMBER: US/10/259,165					
; CURRENT FILING DATE: 2002-09-26					
; PRIOR APPLICATION NUMBER: US 60/370,620					
; PRIOR FILING DATE: 2002-04-04					
; PRIOR APPLICATION NUMBER: US 60/368,327					
; PRIOR FILING DATE: 2002-03-27					
; PRIOR APPLICATION NUMBER: US 60/325,277					
; PRIOR FILING DATE: 2001-09-26					
; NUMBER OF SEQ ID NOS: 782					
; SOFTWARE: PatentList.pl version 3.0.4 (C) 2001 Syngenta					
; SEQ ID NO: 389					
; LENGTH: 717					
; TYPE: DNA					
; ORGANISM: <i>Oryza sativa</i>					
; US-10-259-165-389					
Query Match 10.1%; Score 155.8; DB 15; Length 717;					
Best Local Similarity 57.9%; Pred. No. 9.2e-24;					
Matches 297; Conservative 0; Mismatches 212; Indels 4; Gaps 1;					
Qy	50	GGTCAACAAATATGTTGCTCCAAATGTTGTAACAGGTGTTACATCTCCGGTAC 109	Db	541	GGTGCAGCTGACTGGCTCTGCTGAAACACGGTCACTGGCTGACCGCCGGC 482
Qy	110	TTPAGCTGACTAGCAATTCCATTTATTTGCGTCAATGAATTCG---TGC 165	Db	481	CTTCAGCTGCTGGCACTGCCCGCCACGTCGGCCCTCGACCGGGCCCTTGGC 422
Qy	166	ATTCCTCCACACTGGATTAGTCGGGGGAAAGTCATGGTATAATAAATCCATGACTA 225			

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OM nucleic - nucleic search, using SW model

Run on: June 17, 2005, 17:23:59 ; Search time 252.501 Seconds
(without alignments)
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Title: US-10-051-307-3
Perfect score: 1546
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Scoring table: IDENTITY_NUC.
Gapop 10_0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 24055568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ALIGNMENTS

RESULT 1
US-08-182-037A-1/c
Sequence 1, Application US/08482037A.
; Patent No. 5801028
; GENERAL INFORMATION:
; APPLICANT: Ray Bressan and Paul M. Hasegawa
; TITLE OF INVENTION: Osmotin Gene Promoter and Use Thereof
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Thomas Q. Henry
; STREET: Bank One Tower, Suite 3700, 111 Monument Circle
; CITY: Indianapolis
; STATE: Indiana
; COUNTRY: USA
; ZIP: 46204-5137
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
; COMPUTER: COMPAQ
; OPERATING SYSTEM: MSDOS
; SOFTWARE: ASCII
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/482,037A
; FILING DATE: June 7, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/476,243
; FILING DATE: June 7, 1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/180,428
; FILING DATE: January 12, 1993
; APPLICATION NUMBER: 08/065,147
; FILING DATE: May 20, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Thomas Q. Henry
; REGISTRATION NUMBER: 28,309
; REFERENCE/DOCKET NUMBER: 7024-8/FUR16CIPDIVII
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (317) 634-3456
; TELEFAX: (317) 637-7561
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 3033 bases
; TYPE: Nucleotide/Amino Acid
; STRANDEDNESS: Double
; TOPOLOGY: Linear
; MOLECULE TYPE: Genomic DNA
US-08-182-037A-1

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	500	32.3	3033	1 US-08-482-037A-1	Sequence 1, Appli
C 2	450.4	29.1	883	1 US-07-928-798C-4	Sequence 4, Appli
C 3	450.4	29.1	883	2 US-08-315-868A-4	Sequence 4, Appli
C 4	450.4	29.1	883	3 US-08-495-819B-4	Sequence 4, Appli
C 5	450.4	29.1	884	1 US-07-928-798C-5	Sequence 5, Appli
C 6	450.4	29.1	884	2 US-08-315-868A-5	Sequence 5, Appli
C 7	450.4	29.1	884	3 US-08-495-819B-5	Sequence 5, Appli
C 8	180.6	11.7	875	4 US-09-589-723C-4	Sequence 4, Appli
C 9	159.2	10.3	900	1 US-08-182-271A-4	Sequence 4, Appli
C 10	159.2	10.3	900	1 US-08-449-315-4	Sequence 4, Appli
C 11	159.2	10.3	900	1 US-08-444-803-4	Sequence 4, Appli
C 12	159.2	10.3	900	1 US-08-449-043-4	Sequence 4, Appli
C 13	159.2	10.3	900	1 US-08-456-265A-4	Sequence 4, Appli
C 14	159.2	10.3	900	1 US-08-455-416-4	Sequence 4, Appli
C 15	159.2	10.3	900	1 US-08-455-244-4	Sequence 4, Appli
C 16	159.2	10.3	900	1 US-08-454-876-4	Sequence 4, Appli
C 17	159.2	10.3	900	2 US-08-457-364-4	Sequence 4, Appli
C 18	159.2	10.3	900	2 US-08-456-262-4	Sequence 4, Appli
C 19	159.2	10.3	900	2 US-08-456-240-4	Sequence 4, Appli
C 20	159.2	10.3	900	2 US-08-455-736-4	Sequence 4, Appli
C 21	159.2	10.3	900	2 US-08-971-217-4	Sequence 4, Appli
C 22	159.2	10.3	900	3 US-09-350-600-4	Sequence 4, Appli
C 23	159.2	10.3	900	4 US-09-906-234-4	Sequence 4, Appli
C 24	152.6	9.9	910	4 US-09-685-292-1	Sequence 1, Appli
C 25	124.8	8.1	894	1 US-08-178-708-7	Sequence 7, Appli
C 26	124.8	8.1	894	1 US-08-457-557-7	Sequence 7, Appli
C 27	124.8	8.1	894	1 US-08-456-430-7	Sequence 7, Appli

Query Match Score 500/ DB 1; Length 3033;

CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/495,819B
 FILING DATE: 31-MAY-1995
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/315,868
 FILING DATE: 30-SEPT-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APRIL-92

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: MABB, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE DOCKET NUMBER: U-010255-1

TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEX: 233288

INFORMATION FOR SEQ ID NO: 4 :

SEQUENCE CHARACTERISTICS:
 LENGTH: 983
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-495-819B-4

Query Match 29.1%; Score 450.4; DB 3; Length 883;
 Best Local Similarity 85.4%; Pred. No. 58-102;
 Matches 502; Conservative 0; Mismatches 86; Indels 0; Gaps 0;

1 ATCTTGTGTTGAAATTGGAAAGAACGTAGGACCATGGACCTGGGTGCACTA 60
 Db 602 ATCTTGTGTTGAAATTGGAAATTGGAAATTGTAGGACCAAGGTCTTGTGCACTA 543

61 ATTTGTCCTCCAAATGGTGTACAACGATTGTACATCTTCGGGTACTTTAAGTCGAC 120
 Db 542 ATTTGTCCTCCGAATGTAGTACAGGTATTACATCTTCGGGAAACCCCTAGTGC 483

121 TAGGACATTCACCATTTATTTGCCGTGATTGATTGCTGCAATTCTCTCCACTTG 180
 Db 482 GGGGACATTCGCGTTATTAATGGCTTACATGAAATGCTTGTGCACTA 423

181 GATTTGGTGGGGAAAGTCATGGTATTAATCCATCACTAAAGAATGTCAGA 240
 Db 442 GGTAGTGGGGAAAGTCATGGTAAATGCTGAAATGTCTCCAGA 363

241 AATCTAAGTTGTGAACTGGTGGGTACTGGTGGGTATGGCTTACCC 300
 Db 362 AATCTAACCTGAACTGTTGCAAAAGTATTGTCACGAAAGTGTGTTACCC 303

301 ACCCGGTGACTCTGGGACCAACCATCACAGTCAACTGCAACCTCTAACGAC 360
 Db 302 ACCGGGTGACTCTGGGACCAACCATCACAGTCAACTGCAACCTCTAACGAC 243

361 CATTGAACTTACATCCGTTACGACCCATATAGTGCATCTAGTGCCTCTAGGGCAT 420
 Db 242 CATTGAACTTACATTTAGTACGCCCCATACAGTGCATTTAGTACTCTGGGGCAT 183

Qy 421 CATTGAACTTACATCCGTTACGACCCATATAGTGCATCTAGTGCCTCTAGGGCAT 480
 Db 182 TGATCACCCAGTTGGCTGATGAGCCCTGATGAGCCCTGAGCTGGTGCAGGCC 123

Qy 481 CCCAGACGGTGTATGGACAGTGTGGTACCTCGATACTGGCAGCAATACTGAAAGTCA 540
 Db 122 CCCAAACGGTGTACGGACAGTGTGGACCTGATGAGCTGGCAGCAATACTGAAAGTCA 63

Qy 541 CAAAGGAGAGGGAGAACACAGAGATCTCAGTAGCCCATG 588
 Db 62 CCAAGGCAAGGGAGAACAAAGAAGATCTCAGTGTGGCCCATG 15

RESULT 5
 US-07-828-798C-5/c
 Sequence 5, Application US/07828798C
 Patent No. 5389609
 GENERAL INFORMATION:
 APPLICANT: Wołoszuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Obtaining Plants with Reduced Susceptibility to Fungi
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with Reduced Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/828,798C
 FILING DATE: 06-APR-1992
 CLASSIFICATION: 514
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mabb, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-07-828-798C-5

Query Match 29.1%; Score 450.4; DB 1; Length 884;
 Best Local Similarity 85.4%; Pred. No. 5e-1126;
 Matches 502; Conservative 41; Mismatches 86; Indels 0; Gaps 0;

Qy 1 ATCTTGTGTTGAAATTGGAAAGAACGTAGGACCATGGACCTGGGTGCACTA 60
 Db 602 ATCTTGTGTTGAAATTGGAAATTGTAGGACCAAGGTCTTGTGCACTA 543

Qy 61 ATTTGTCCTCCAAATGGTGTACAACGATTGTACATCTTCGGGTACTTTAAGTCGAC 120
 Db 542 ATTTGTCCTCCGAATGTAGTACAGGTATTACATCTTCGGGAAACCCCTAGTGC 483

Qy 121 TAGGACATTCACCATTTATTTGCCGTGATTGATTGCTGCAATTCTCTCCACTTG 180
 Db 482 GGGGACATTCGCGTTATTAATGGCTTACATGAAATGTCTCCAGA 363

Qy 181 GATTTGGTGGGGAAAGTCATGGTATTAATCCATCACTAAAGAATGTCAGA 240
 Db 442 GGTAGTGGGGAAAGTCATGGTAAATGCTGAAATGTCTCCAGA 363

Qy 241 AATCTAAGTTGTGAACTGGTGGGTACTGGTGGGTATGGCTTACCC 300
 Db 362 AATCTAACCTGAACTGTTGCAAAAGTATTGTCACGAAAGTGTGTTACCC 303

Qy 301 ACCCGGTGACTCTGGGACCAACCATCACAGTCAACTGCAACCTCTAACGAC 360
 Db 302 ACCGGGTGACTCTGGGACCAACCATCACAGTCAACTGCAACCTCTAACGAC 243

Qy 361 CATTGAACTTACATCCGTTACGACCCATATAGTGCATCTAGTGCCTCTAGGGCAT 420
 Db 242 CATTGAACTTACATTTAGTACGCCCCATACAGTGCATTTAGTACTCTGGGGCAT 183

Qy 602 ATCTTGTGTTGAAATTGGAAAGAACGTAGGACCATGGACCTGGTGCACAAAT 60
 Db 602 ATCTTGTGTTGAAATTGGAAAGAACGTAGGACCATGGACCTGGTGCACAAAT 543

61 ATTGGTGTCCCTCCAATGTGGTACAGGATGGTACATCCCTCGGGTACTTTAAGCTGAC 120
 542 ATTGGTGTCCCTCGAATGGTACAGGGTTATTACATCCCTCGGGAAACCTTAAGTCGGC 483

Qy 121 TAGGACATTACCAATTATGGCGGTGATTGGTGGATTCCCTCACTTG 180
 Db 482 GGGGACATTCGGCTTATTAGCCGTAATGGATTGATGGCATTCCTCACTAG 423

Qy 181 GATTACTGGGGGAAAGTCACTAAAGGATATTCAACTAAAGGATATTCAACTAAAGGATATTCAACTAAAGGATATTGTCCAGA 240
 Db 422 GGTAGTCGGCGAAAGTCATCGGAAATGTGAATTCATCAACTAAAGGATATTGTCCAGA 363

Qy 241 AATCTAAGTGTGAACTGGTCCGAGGGTACTCGGTAGGGTTTACCCC 300
 Db 362 AATCTAACCTACTGTTGGTCAAAAGCTATTAGCCAAAGGTGTTGGGGTTAACCCC 303

Qy 301 ACCCGGTGACTGAGGACCAACCAATACCGATGACCAACCTCTAACGAC 360
 Db 302 ACCCGGTGACTGTAGGACTCCACCAAGTCACCGGTTGGCACGTTACCCCTAACGCG 243

Qy 361 CATGGAACTACATCCAGTACGGCCATACGGCCATATACGGCCATCGTACTGCCCTAGCGCT 420
 Db 242 CATTGGAACTACATGGCCCATACGGCCATACGGCCATTAGTACCTCGTACTCG 183

Qy 421 CAATGACCAAGCTTGGCCTCGATGAGGTGCGCCACCGCCPATCGGGTGTCAATGCTG 480
 Db 182 TGATCACCAAGTGGCTCTCGATGAGGACGCCAACCGCCPATGGGTGTCAACGCCG 123

Qy 481 CCCAGACGGTGTGATGAGCTGGTGTGCTCATATGGCACCATAGTGAAGCTA 540
 Db 122 CCCAAACGGTGTACGGACAGTTTCGACCTCGATGTCGACCATAGTAAAGCTA 63

Qy 541 CAAAGGCAAGGGAAACAAAGAAGATCTAAGTGGCCCTGT 588
 Db 62 CCAAGGCAAGGGAAACAAAGAAGATCTAAGTGGCCCTGT 15

RESULT 6
 US-08-315-868A-5/C
 Sequence 5, Application US/08315868A
 Patent No. 5856151
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Selja-Burulage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Obtaining Plants with
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/315,868A
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089

FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass. Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 233288

INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-315-868A-5

Query Match 29.1%; Score 450.4; DB 2; Length 884;
 Best Local Similarity 85.4%; Pred. No. 5e-102;
 Matches 502; Conservative 0; Missmatches 86; Indels 0; Gaps 0;

Qy 1 ATCTGTGTGAAAAAATTGAAAGAACCTAGGACCATGGACTCTGGTGCACAAAT 60
 Db 602 ATCTGTGTGAAAAAATTGAAAGAACCTAGGACCATGGACTCTGGTGCACAAAT 543

Qy 61 ATTGTGTCTCCAAATGTTGAAAGGTTGACAGGTTGTTACATCTCCGGTACTTTAAGCTGAC 120
 Db 542 ATTGTGTCTCCGAATGGTGTGAAAGGTTTAACTATCTCCGGAAACCTTAAGTTCGCG 483

Qy 121 TAGGACATTACCAATTATATTGTCGTCATTGGTCAATTGATGCAATTTCCTCCACTTG 180
 Db 482 GGGGACATTGGCGTTTATTAGCCGTACAAATGATGCAATTTCCTCCACTAG 423

Qy 181 GATPAGTCGGGGAAAGTCATCGGTATTAATTCAACTAAAGAAATGTCCAGA 240
 Db 422 GGTTAGTCGGGGAAAGTCATGGAAATGTCCAGAATTAAGAAATGTCCAGA 363

Qy 241 AATCTAAGTGTGCAACTGTGTCAGCTGGCTACTGGTAGGGTTTGGGGTTACCC 300
 Db 362 AATCTAACCACTGTAATTGGTCAAAAGCTATTGCAACGGTTTGGTGTTCACCC 303

Qy 301 ACCGGTGTGACTGGAGACCAACATCAGTCATGCAAACTCTAACGGAC 360
 Db 302 ACCGGTGTGACTGTGACTGTTGGACTCCACAGTACGGTTGGCAAGTACCCCTAACGGCAG 243

Qy 361 CATGGAACTTACATCAGTCAGGACCCATACGGTGCATGTCATGCAAACTCTAACGGCAG 420
 Db 242 CATGGAACTTACATCAGTCAGGACCCATACGGTGCATGTCATGCAAACTCTAACGGCAG 183

Qy 421 CAATGACCCACGGTTGGCTCGATGAGACGTCGGCTTACGGGCTTACGGCT 480
 Db 182 TGATCACCCRAAGTTGGCTCTGATGAGACGCGCCACCGCCCTATGGGTGTGCGCCG 123

Qy 481 CCCAGACGTGTGAAAGGAAACAAAGAAGATCTAAGTGGACAGTTGGTGTGCAATAGTGAAGTCA 540
 Db 122 CCCAGACGTGTGAAAGGAAACAAAGAAGATCTAAGTGGACAGTTGGTGTGCAATAGTGAAGTCA 63

RESULT 7
 US-08-495-819B-5/C
 Sequence 5, Application US/08495819B
 Patent No. 6087161
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.

APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Selia-Buirljen, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Obtaining Plants
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants
 TITLE OF INVENTION: with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS: 7
 ADDRESSEE: Ladis, F. Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/495, 819B
 FILING DATE: 31-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/315, 868
 FILING DATE: 30-SEPT-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828, 798
 FILING DATE: 06-APRIL-92
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-010255-1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 233388
 SEQUENCE FOR SEQ ID NO: 5:
 LENGTH: 884
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-495-819B-5

Query Match 29.1%; Score 450.4; DB 3; Length 884;
 Best Local Similarity 85.4%; Pred. No. 5e-102;
 Matches 502; Conservative 0; N mismatches 86; Indels 0; Gaps 0;

Qy 1 ATCTTGTGTTGAAAAAATTGCGAAAAGAACGTAGGACCAATGGACTCTGGTCAACAT 60
 Db 602 ATCTTGTGTTGAAAATTGCGAAAATTTGCGACCAAGGTCTTGTGCAACAT 543
 Qy 61 ATTGTGTGTCCTCCAAATGCTGTCAGGTGTACATCTCCGGTACTTGTGTCAC 120
 Db 542 ATTGTGTGTCCTCCGGATGTAGTACAGGTATTACATCCCTCCGGAAACCTTAAGTTGCG 483
 Qy 121 TAGGACATCACCATTATTTGGCTGGATATTGGCTGGGATTTCCTCCACTTG 180
 Db 482 GGGACATTGGCTTAAATTAGCTGGTAATAGTGGATTTCCTCCATAG 423
 Qy 181 GATTGTCGGGGCGAAAAGTCATCGSTTATTAATTCATCAACTAAAGAATGTCGCCAGA 240
 Db 422 GGTTACTCGGGCGAAAATGTCATCGGAAATGTGAATTCATCAACTAAAGAATGTCGCCAGA 363
 Qy 241 AATCTAAGTGTGTTGAACTGGCTACTCGCTGAGGGCTTGGGTGTTGCGGTTAACCCC 300
 Db 343 AATCTAAGTGTGTTGAACTGGCTACTCGCTGAGGGCTTGGGTGTTGCGGTTAACCCC 284

RESULT 8
 US-09-589-733C-4/c
 ; Sequence 4, Application US/09589733C
 ; Patent No. 6677503
 ; GENERAL INFORMATION:
 ; APPLICANT: Bidney, Dennis L.
 ; APPLICANT: Crasta, Oswald R.
 ; APPLICANT: Duvick, Jon
 ; APPLICANT: Hu, Xu
 ; APPLICANT: Lu, Guihua
 ; TITLE OF INVENTION: Sunflower Anti-pathogenic Proteins and
 ; TITLE OF INVENTION: Genes and their Uses
 ; FILE REFERENCE: 5718-90
 ; CURRENT APPLICATION NUMBER: US/09/589,733C
 ; CURRENT FILING DATE: 2000-06-08
 ; PRIOR APPLICATION NUMBER: 60/140, 646
 ; PRIOR FILING DATE: 1999-06-23
 ; PRIOR APPLICATION NUMBER: 60/162, 904
 ; PRIOR FILING DATE: 1999-11-01
 ; NUMBER OF SEQ ID NOS: 41
 ; SEQ ID NO 4
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; LENGTH: 875
 ; TYPE: DNA
 ; ORGANISM: Helianthus annuus
 US-09-589-733C-4

Query Match 11.7%; Score 180.6; DB 4; Length 875;
 Best Local Similarity 60.9%; Pred. No. 5e-35;
 Matches 332; Conservative 0; N mismatches 204; Indels 9; Gaps 2;

Qy 1 ATCTTGTGTTGAAAAAATTGCGAAAAGAACGTAGGACCAATGGCTGGTCAACATGGACAAAT 60
 Db 577 ATCTGTCCTGAAAACCTGTATAATCAGTTGGTCACATTTCAGAGTTGCGCAACAT 518
 Qy 61 ATTGTGTGTCCTCCAAATGCTGTCAGGTGTACATCTCCGGTACTTGTGTCAC 120
 Db 517 ACTGTCAGTGTGTCACCGGTGCAAGGTATTGCGACCCCGAGGCCGTAATCAG 458
 Qy 121 TAGGACATCACCATTATTTGGCTGGATATTGGCTGGGATTTCCTCCACTTG 180
 Db 457 CAGGACACTGGCCATTGATTCGGTACATGAGATAACCCGGGGTGCACCC-----AT 404
 Qy 181 GATTGTCGGGGCGAAAAGTCATCGSTTATTAATTCATCAACTAAAGAATGTCGCCAGA 240
 Db 403 TAGAATTGGTCTAAACACCATCGCAATGTCATGAAATGTCAAAGAATGTCAAAGA 344
 Qy 241 AATCTAAGTGTGTTGAACTGGCTACTCGCTGAGGGCTTGGGTGTTGCGGTTAACCCC 300
 Db 343 AATCTAAGTGTGTTGAACTGGCTACTCGCTGAGGGCTTGGGTGTTGCGGTTAACCCC 284

Qy 301 ACCCGGTCACTGGAGAACCAACAAACCAACCTGACAAACCTTACAGCAC 360
 Db 283 AGTTTGGATTGGAGGAACCGTGCATACCGGTCTGCACTACGGCTCAGAC 224
 Qy 361 CATGGAGTACATCCAGTAGACCCCATATACTGGCCATCGTACTGCCCTAGGCAT 420
 Db 223 CATTAAAGTGGCAATTGGTGGCCATATACTGGCTCTGCGCTCGACGG 164
 Qy 421 CAATGACCCAGCTGGCTGATGGCTGATGGACGCTGGCCCATGGCCGATGCTG 480
 Db 163 TTAAGACAGGTGGCTGAGTAAGTGTGCGCCACCCACCG 107
 Qy 481 CCCAGACGGCTGATGGACAGTTGGCTGATCTGGCATAGTGGCACATAGTGAAGTC 540
 Db 106 CCCAACGGTGTGATGGACAGTTGGCTGATGGTGAACCGGCTGCAATGGTATAGTGA 47
 Qy 541 CAAAA 545
 Db 46 AAAGA 42

RESULT 9
 US-08-181-271A-4/c
 / Sequence 4, Application US/08181271A
 / Patent No. 5614395
 / GENERAL INFORMATION:
 / APPLICANT: Rvals, John A.
 / APPLICANT: Alexander, Danny C.
 / APPLICANT: Beck, James J.
 / APPLICANT: Duesing, John H.
 / APPLICANT: Friedlich, Leslie B.
 / APPLICANT: Goodman, Robert M.
 / APPLICANT: Harms, Christian
 / APPLICANT: Meins, Jr., Frederick
 / APPLICANT: Montoya, Alice
 / APPLICANT: Moyer, Mary B.
 / APPLICANT: Neuhaus, Jean-Marc
 / APPLICANT: Payne, George B.
 / APPLICANT: Sperison, Christoph
 / APPLICANT: Stinson, Jeffrey R.
 / APPLICANT: Oknes, Scott J.
 / APPLICANT: Ward, Eric R.
 / APPLICANT: Williams, Sherica C.
 / TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 / NUMBER OF SEQUENCES: 106
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: CIBA-GEIGY Corporation
 / STREET: 7 Skyline Drive
 / CITY: Hawthorne
 / STATE: New York
 / COUNTRY: USA
 / ZIP: 10532
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Floppy disk
 / COMPUTER: IBM PC compatible
 / OPERATING SYSTEM: PC-DOS/MS-DOS
 / SOFTWARE: PatentIn Release #1.0, Version #1.25
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/08/181,271A
 / FILING DATE: 13-JAN-94
 / CLASSIFICATION: 435
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 08/093,301
 / FILING DATE: 16-JUL-1993
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/937,197
 / FILING DATE: 6-NOV-1992
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/678,378
 / FILING DATE: 1-APR-1991
 / PRIORITY APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566
 / FILING DATE: 6-FEB-1989
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/165,667
 / FILING DATE: 8-MAR-1988
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 08/042,847
 / FILING DATE: 6-APR-1993
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/632,441
 / FILING DATE: 21-DEC-1990
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/425,504
 / FILING DATE: 20-OCT-1989
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/848,506
 / FILING DATE: 6-MAR-1992
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/768,122
 / FILING DATE: 27-SEP-1991
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/580,431
 / FILING DATE: 7-SEP-1990
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/368,672
 / FILING DATE: 20-JUN-1989
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 07/329,018
 / FILING DATE: 24-MAR-1989
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US 08/045,957
 / FILING DATE: 12-APR-1993
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Elmer, James Scott
 / REGISTRATION NUMBER: S-19825/PL/CGC 1727
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: (919)541-8614
 / TELEFAX: (919)541-8689
 / INFORMATION FOR SEQ ID NO: 4:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 900 base pairs
 / TYPE: nucleic acid
 / STRANDEDNESS: Single
 / TOPOLOGY: linear
 / MOLECULE TYPE: cDNA
 US-08-181-271A-4
 Query Match 10.3%; Score 159.2; DB 1; Length 900;
 Best Local Similarity 61.1%; Pred. No. 1e-29;
 Matches 316; Conservative 0; Mismatches 193; Indels 21; Gaps 4;

Qy 1 ATCTTGTGTTGAAATGGAAAAGTGGAGCTGGACCAT----GGACCTTGGGTCTC 54
 Db 604 ATCTTGTCTTAAATCTCGACAAATCGAGGCCACATGATCAGGCCCTTGTAC 545
 Qy 55 AACATATGGTGTCTCAAATGGTGTACATGGTACATGGTGTACATCCTGGTACTTAA 114
 Db 544 AACATATTCATGGTTTATCACGTAATGGTGTACATCCTGGTGTACATCCTGGTACTTAA 485
 Qy 115 GCGGACTGGACATTCCACATTATTTGCCCTGCGTGAATTCCTCT 174
 Db 484 ACTGGCTGGCATGGTGTAACTGGTGTACATGGTGTACATGGTGTACATGGTGTAC 427
 Qy 175 CACTTGGATTAGTGGGGGAAGTCTGGTATTAATCCATCAACTAAAGAATGT 234
 Db 426 -----ATGGTGTGGCTGAATCCTGGGTGTTAAATCCATCAAGAGAATGT 374
 Qy 235 CCCAGAAATCTCAACTGGTGTAACTGGTGTACATGGTGTACATGGTGTAC 294
 Db 373 CGACAAAGTC---CTGATGGTGTAAAGTGAATTCAAGTAAAGTGTAGGTGCTT 317
 Qy 295 TACCCACCCGGTCACTGGACACCAAAATCACCAGTGTGACGACCTCTAC 354

RESULT 10
US-08-149-315-4/c

1 Sequence 4, Application US/08449315
1 Patent No. 5650505

1 GENERAL INFORMATION:

1 APPLICANT: Ryale, John A.
1 APPLICANT: Alexander, Danny C.
1 APPLICANT: Beck, James J.
1 APPLICANT: Duesing, John H.
1 APPLICANT: Frieerich, Leslie B.
1 APPLICANT: Goodman, Robert M.
1 APPLICANT: Harns, Christian
1 APPLICANT: Meins, Jr., Frederick
1 APPLICANT: Montoya, Alice
1 APPLICANT: Moyes, Mary B.
1 APPLICANT: Neuhau, Jean-Marc
1 APPLICANT: Payne, George B.
1 APPLICANT: Sperison, Christoph
1 APPLICANT: Stinson, Jeffrey R.
1 APPLICANT: Uknas, Scott J.
1 APPLICANT: Ward, Eric R.
1 APPLICANT: Williams, Shericca C.

1 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
1 TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
1 NUMBER OF SEQUENCES: 106
1 CORRESPONDENCE ADDRESS:
1 ADDRESS: CIBA-GEIGY Corporation
1 STREET: 7 Skyline Drive
1 CITY: Hawthorne
1 STATE: New York
1 COUNTRY: USA
1 ZIP: 10332

1 COMPUTER READABLE FORM:
1 MEDIUM TYPE: Floppy disk
1 COMPUTER: IBM PC compatible
1 OPERATING SYSTEM: PC-DOS/MS-DOS
1 SOFTWARE: PatentIn Release #1.0, Version #1.25
1 CURRENT APPLICATION DATA:
1 APPLICATION NUMBER: US/08/449,315
1 FILING DATE: 24-MAY-1995
1 CLASSIFICATION: 800
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: 08/181,271
1 FILING DATE: 13-JAN-94
1 APPLICATION NUMBER: US 08/093,301
1 FILING DATE: 16-JUL-1993
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/937,197
1 FILING DATE: 6-NOV-1992
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/678,378
1 FILING DATE: 1-APR-1991
1 PRIOR APPLICATION DATA:

1 APPLICATION NUMBER: US 07/305,566
1 FILING DATE: 6-FEB-1989
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/165,667
1 FILING DATE: 8-MAR-1988
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 08/042,847
1 FILING DATE: 6-APR-1993
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/632,441
1 FILING DATE: 21-DEC-1990
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/425,504
1 FILING DATE: 20-OCT-1989
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/848,506
1 FILING DATE: 6-MAR-1992
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/768,122
1 FILING DATE: 27-SEP-1991
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/580,431
1 FILING DATE: 7-SEP-1990
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/368,672
1 FILING DATE: 20-JUN-1989
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 07/329,018
1 FILING DATE: 24-MAR-1989
1 PRIOR APPLICATION DATA:
1 APPLICATION NUMBER: US 08/045,957
1 FILING DATE: 12-APR-1993
1 ATTORNEY/AGENT INFORMATION:
1 NAME: Elmer, James Scott
1 REGISTRATION NUMBER: 36,129
1 TELECOMMUNICATION INFORMATION:
1 TELEPHONE: (919) 541-8614
1 INFORMATION FOR SEQ ID NO: 4:
1 SEQUENCE CHARACTERISTICS:
1 LENGTH: 900 base pairs
1 TYPE: nucleic acid
1 STRANDEDNESS: single
1 TOPOLOGY: linear
1 MOLECULE TYPE: CDNA
1 US-08-449-315-4/c

Query Match 10.3%; Score 159.2; DB 1; Length 900;
Best Local Similarity 61.1%; Pred. No. 1e-29;
Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;

Qy 1 ATCTTCTTGTAAATGGAAATGGTGTACATCTCCGGGTACCTTAA
Db 604 ATCTTCTTAAATCTGCACATTCAGTCCAGGGCCATGTGTCAC 485

Qy 55 AACATAATTATTGGTGTGGCATACCATTTGGTGTACATCTCCGGGTACCTTAA
Db 544 AACATAATTATTGGTGTGGCATACCATTTGGTGTACATCTCCGGGTACCTTAA 114

Qy 115 GCTGACTAGGACATACCATTTGGTGTACATCTCCGGGTACCTTAA
Db 484 ACTGCTGGCATCTGGTGTGGCATACCATTTGGTGTACATCTCCGGGTACCTTAA 427

Qy 175 CACTGGATTAGTCGGGGAAAGTCAGTGTATTAATCACTAAAGAAATGT
Db 426 -----ATGGTGGCTGTAATGGGATGTTAACCTAACAGAGATGT 374

Qy 235 CCCAGAAATCTAAGTGTGAACTGGTCCGGGTACTGGTGTGGGT 294

Db 373 CGACAAAGTC --CTGATTTGGTTGATTAAGTGAATTCAGTAAAGTGTAGGCGT 317

Qy 295 TACCCACCCGGGACTGAGAACCCACAAATCACCAGTCATGCCAACCTCTAC 354

RESULT 11
 IS-08-444-803-4/C
 Sequence 4, Application US/08444803
 Patent No. 5634414

GENERAL INFORMATION:

APPLICANT: Royals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Meins, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean Marc
 APPLICANT: Payne, George B.
 APPLICANT: Sperison, Christopher
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Ukwani, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Sharicca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 NUMBER OF SEQUENCES: 106
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GRIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10532

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444,803
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/181,271
 FILING DATE: 13-JAN-94
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678,378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566
 FILING DATE: 6-FEB-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165,667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632,441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/368,672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329,018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045,957
 FILING DATE: 12-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Elmer, James Scott
 REGISTRATION NUMBER: 36-129
 REFERENCE/DOCKET NUMBER: S-19825/B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (919)541-8614
 TELEFAX: (919)541-8689
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 900 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-444-803-4

RESULT 11
 -S-08-444-803-4/c
 Sequence 4, Application US/08444803
 Patent No. 563414
 GENERAL INFORMATION:
 APPLICANT: Ryals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Meins, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean-Marc
 APPLICANT: Payne, George B.
 APPLICANT: Sperison, Christoph
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Uknus, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Sheriloca C.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF?
 NUMBER OF SEQUENCES: 106
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10332
 COMPUTER READABLE FORM:
 COMPUTER: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444,803
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/181,271
 FILING DATE: 13-JAN-94
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-OCT-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678,378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/305,566
 FILING DATE: 6-FEB-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165,667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632,441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/368,672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329,018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045,957
 FILING DATE: 12-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Elmer, James Scott
 REGISTRATION NUMBER: 36-129
 REFERENCE/DOCKET NUMBER: S-19825/B
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (919)541-8614
 TELEFAX: (919)541-8689
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 900 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-444-803-4

Query Match 10.3% Score 15
 Best Local Similarity 61.1% Pred: No
 Matches 336; Conservative 0; Misaligned 0

Q1 1 ATCTTTGTTGAAAGAAATGGAAAGAA
 Db 604 ATCTTTCTTAAAGAAATCTGACAAATC
 Qy 55 AACATATGTTGCTCCTAAATGGTGG
 Db 544 AACATATCATTGGTTTATCACAG
 Qy 115 GCTGACTAGGACATTACCATTTATAT
 Db 484 ACITGCTGGCATTTGTTGAAATCCCA
 Qy 175 CACTGGATTAGTGGGGGGAAGTCT
 Db 426 -----ATTGGTGGGGTGAATTC
 Qy 235 CCCGAAATCTAATGTTGAACTGTT
 Db 373 CGACAAAGTC--CTGATGGTGTGATC
 Qy 295 TACCCCAACCCGGTGCACCTGAGGACAC

RESULT 13

US-08-456-265A-4/C

Sequence 4, Application US/08456265A

Patent No. 5767369

GENERAL INFORMATION:

APPLICANT: Alexander, Danny C.

APPLICANT: Rvals, John A.

APPLICANT: Goodman, Robert M.

APPLICANT: Stinson, Jeffrey R.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC

TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF

NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 520 White Plains Road, P.O. Box 2005

CITY: Tarrytown

STATE: New York

COUNTRY: USA

ZIP: 10591

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US 08/456,265A

FILING DATE: 31-MAY-95

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/181,271

FILING DATE: 13-JAN-1994

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,197

FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,667

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/768,122

FILING DATE: 27-SEP-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/580,431

FILING DATE: 7-SEP-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672

FILING DATE: 20-JUN-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/329,018

FILING DATE: 24-MAR-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/045,957

FILING DATE: 12-APR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Meigs, J. Timothy

REGISTRATION NUMBER: 38,241

REFERENCE/DOCKET NUMBER: S-19825/PI/CGC 1727/DIV10

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919)541-8689

TELEFAX: (919)541-8689

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 900 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-08-456-265A-4

Query Match 10.3%; Score 159.2; DB 1; Length 900;

Best Local Similarity 61.1%; Pred. No. 1e-29; Missmatches 193; Indels 21; Gaps 4;

Matches 336; Conservative 0; Mismatches 193; Indels 21; Gaps 4;

Qy 1 ATCTTGTTGAATAATTGGAAAGAACTTAGAACAT-----GGACCTTGGTGC 54

Db 604 ATCTTCCTTAAATTCGACAAATCGTAGGCCATGTACAGTCAGGCCATTGTAC 545

55 AACATATACTGGTCCTCCAAATGGTACATCTGGTACATCTGGGTACTTTAA 114

Qy 544 AACATATACTGGTTTATCAAGTACATGGTACATCTGGTACATCTGGTTC 485

544 AACATATACTGGTTTATCAAGTACATGGTACATCTGGTACATCTGGTTC 485

544 AACATATACTGGTTTATCAAGTACATGGTACATCTGGTACATCTGGTTC 485

544 AACATATACTGGTTTATCAAGTACATGGTACATCTGGTACATCTGGTTC 485

115 GCTGACTAGGACATTACCAATTATATTGGCGTGCATGAAATGCTGGCATTCCTC 174

Db 484 ACTGGCTGGCATGGTGTATAAGCTGTGCTGCATCTGGATACATCTGGC 427

Db 484 ACTGGCTGGCATGGTGTATAAGCTGTGCTGCATCTGGATACATCTGGC 427

Qy 175 CACTGGATTAGTCGGCGAAAGTCATCGTATATAATCCATCACTAAAGAATGT 234

Db 426 -----ATGGTCGGCTGAATTCATGGATGTTAAATCCATCACTAAAGAATGT 374

Qy 235 CCCAGAAATCTAACTGGTGAACCTGGTCCGGGGTACTCGGTAGGGTGTGGT 294

Db 373 CGACRAAGTC---CTGATGGTGAATGCAATTAGTCAGTAAAGTGTGGT 317

Qy 295 TACCCACCCGGTCAACTCGGAAACCCACATCAGCTGGCATGAAACTCTAC 354

Db 316 TTCCATAGCTTGCACCTAACTCCCTTACGTCAGTCATATTCTCGGC 257

Qy 355 CAGCZCCATGAACTTACATCCAGTCACTAACTGCGCTATCGTAGTGCCTCTAG 414

Db 256 CACTCCCATGGAATGGTCACTGGACTCTGGACTCTGGTCTGGGT 197

Qy 415 GCGCATCATGACCCACCTTTGGCTCGATGAGCCTGACCGCTATCGGGTCG 474

Db 196 TCAGTTAATGCTCCAAAGTGGCTGACTGCGCTGCACCT---GEAGAGG 140

Qy 475 ATGCTGCCAGACGCTGATGACAGTGTGCTGACATGCTAAAGTGGCAGCATGAA 534

RESULT 14
US-08-455-416-4/c
Sequence 4, Application US/08455416
Patent No. 5777200

GENERAL INFORMATION:

APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Dusing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meiss, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christopher
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Utnes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
TITLE OF SEQUENCES: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
ADDRESS: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,416.
FILING DATE: 31-MAY-1995/416.
CLASSIFICATION: 800

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993/301

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/337,197
FILING DATE: 6-NOV-1992
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506
FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,557
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Bime, James Scott
REGISTRATION NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8614
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-455-416-4

Query Match 10.3%; Score 159.2; DB 1; Length 900;
Best Local Similarity 61.1%; Pred. No. 1e-229; Indels 21; Gaps 4;
Matches 336; Conservative 0; Mismatches 193; Insertions 21; Gaps 4;

Qy 1 ATCTTGTGTCAAAATGGAAAACCTAGGACACAT-----GGACCTTGGTGC 54
Db 604 ATCTTCTTAAATATCTCAAAATCTGATGATCAGGGCAATGGCCATGGTAC 545

Qy 55 AACAAATTGTTGCTCCAAAATGTTGACATCTCCGGGTACTTTAA 114
Db 544 AACAAATTGTTGCTCCAAAATGTTGACATCTCCGGGTACTTTAA 485

Qy 115 GCTGACTAGGACATCACCATTTAATTGCGTGCATGAAATGCGTCATCCCTC 174
Db 484 ACTGTTGCTGGCCATGTTGTTAAAGGGTGTGATCTGAGATTGACATCC-- 427

Qy 175 CACTTGATTAGTCCGGGAAAGTCACTGGTATTTAACTCAAGAAATGT 234
Db 426 -----ATTCGTCGGCTGAATTCCATGGGATGTTAATCCATCACAGAGATGT 374

Qy 235 CCCAGAAATCTAAGTGTGACITGTTGACTCGGGCTACTGGCTACGGTGGT 294
Db 373 CGACAAAGTC--CGATTTGGTTGATTAAGTGCATAAGTGTGGTCT 317

Qy 295 TACCCACCCGGTCACTGAGAACCAACATCACCAGTCAATGCCAACCTCTAC 354
Db 316 TCCCATAGCCCTGATCTAACATCCGGTACGCTCCAGTCAAAATTACCTCGGC 257

Qy 355 CAGCACCATGCAAGTACATCGTAGGCCCATACGTCATGTCATGCCCTAG 414
Db 256 CACTGCTCATGCAAGTGCATATTGGTCGACCCAAATGCCAGCTGACTGTTCTGGGT 197

Qy 415 GGCATCAATGACCAAGTGGCTGATGAGCTGAGCTGACGCTGATGGGGTCG 474
Db 196 TCACATTAATGCTCCAGATGGCTGAGTGGCTGAGCTGAGCTGATGGGGTCG 140

Qy 475 ATGCTGCCACAGCGGTGATGGACAGTGGTGTGACTGATGGCACCATGAGTGA 54

RESULT 15
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 Sequence 4, Application US/08455244
 ; Patient No. 5789214

GENERAL INFORMATION:

Db 139 CCGGGCCAGACTGTTAGTGATTTGTCATAATGTCAAAATGGCAGCATGAGTAA 80
 Qy 535 AAGTCACAA 544
 ; 79 CGCTCACAA 70

Db 79 CGCTCACAA 70

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
ADDRESSEE: CLIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

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Oy |||||
79 CAGCTACAA 70
Db

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Job time : 256.501 secs

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OM nucleic - nucleic search, using sw mode1

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9904.902 Million cell updates/sec

Title: US-10-051-307-2

Perfect score: 1598

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Gap0 10.0 , Gapext 1.0

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Total number of hits satisfying chosen parameters: 12109378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0‡

Maximum Match 100‡

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Sequence 4, Appli
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Sequence 36321, A
Sequence 7716, Ap
Sequence 389, App
Sequence 41, Appli
Sequence 86607, A
Sequence 7737, Ap
Sequence 13563, A
Sequence 29028, A
Sequence 10107, A
Sequence 2734, A
Sequence 353, App
Sequence 109, App
Sequence 8969, A
Sequence 10106, A
Sequence 4765, A
Sequence 571, App
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Sequence 5102, Ap
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Sequence 19747, A

ALIGNMENTS

RESULT 1
US-10-051-307-2
Sequence 2, Application US/10051307
/ Publication No. US2002017095A1
/ GENERAL INFORMATION:
/ APPLICANT: DAI, ZIYU
/ APPLICANT: SHI, LIFANG
/ APPLICANT: HOOKER, BRIAN S.
/ TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
/ FILE REFERENCE: US94/0141
/ CURRENT APPLICATION NUMBER: US/10/051,307
/ CURRENT FILING DATE: 2002-01-22
/ PRIOR APPLICATION NUMBER: 60/763,224
/ PRIOR FILING DATE: 2001-01-23
/ NUMBER OF SEQ ID NOS: 14
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 2
/ LENGTH: 1598
/ TYPE: DNA
/ ORGANISM: Solanum tuberosum
US-10-051-307-2

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1598	100.0	1598	13	US-10-051-307-2
2	1598	100.0	1598	21	US-10-051-948-1
3	1482.2	92.8	1595	13	US-10-051-307-1
4	1482.2	92.8	1595	21	US-10-903-948-1
5	1334.4	83.5	1546	13	US-10-051-307-3
6	1334.4	83.5	1546	21	US-10-903-948-3
c 7	291.2	18.2	510	17	US-10-341-961A-371

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Qy	181	CATTATATTGGCCTGATTGATTCTGGCATTTCACCTGGATTAGCTGAGCTGGG	240	Db	1261	CTATGATGCAAAATATCCTAAAGAACCCCTTACATCTTAAAGAACCC	1320				
Db	181	CATTATATTGGCCTGATTGATTCTGGCATTTCACCTGGATTAGCTGAGCTGGG	240	Qy	1321	GGAGCATGGATATTTACTAAATTAAATAATTGGGAGGATTGATGACAAGGCATCA	1380				
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Db	241	CGAAAGTGTATCGCTATATAATCCATCACTAAAGAATGTCGCCAACCTAAGTGT	300	Qy	1381	AGCTATCGTCATCCACATAGGATACTTAACTGTTAGATGGCTGTTTAGCAACAGTG	1440				
Qy	301	TGAACTGGTCCAGGGTACTCGGTAGGGTTGGCTTGGCCACCCGTCAC	360	Db	1381	AGCTATCGTCATCCACATAGGATACTTAACTGTTAGGATGATGGCTGTTTAGCAACAGTG	1440				
Db	301	TGAACTGGTCCAGGGTACTCGGTAGGGTTGGCTTGGCCACCCGTCAC	360	Qy	1441	GATCATGTCACATTGAGTTGAGTTAACAAATACTCCTATAATACCTGCTATCCTTAAAC	1500				
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Db	481	TTCGGCCCTGATGAGCTGGCAACGGCTCATCGGTGCAATGCCCCAAACGATGTA	540	Qy	RESULT 2						
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Db	541	TGGACAGTTGGTGGGTACCTCTGATAGTCAGCATATAAGTGAAGCAAAAGCAGA	600	Qy	; Sequence 2, Application No. US10903948						
Qy	601	AGGGAGAAACCCAAAGAGATCTCAACTAGGCCATTTGTGTAATTATATGTGACA	660	Db	; Publication No. US20050005324A1						
Db	601	AGGGAGAAACCCAAAGAGATCTCAACTAGGCCATTTGTGTAATTATGTGACA	660	Qy	; GENERAL INFORMATION:						
Qy	661	AATTATTGGTACTTATATAGGCTATGGCTTTGGCAACTACGGATTAAAT	720	Db	; APPLICANT: SHI, LIPANG						
Db	661	AATTATTGGTACTTATATAGGCTATGGCTTTGGCAACTACGGATTAAAT	720	Qy	; APPLICANT: HOOKER, BRIAN S.						
Qy	721	CCTATTATAACAAATACATACCTTGACTTAACTTAAACGAAATAATTACAAATATGAT	780	Db	; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF						
Db	721	CCTATTATAACAAATACATACCTTGACTTAACTTAAACGAAATAATTACAAATATGAT	780	Qy	; FILE REFERENCE: 059440/0141						
Qy	781	TTCGTAACGTCAGGGCGAAATACTGATAGGCTCAATAAATTATTTATGCA	840	Db	; CURRENT APPLICATION NUMBER: US/10/903,948						
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Db	841	ATATAGCCATTAGTTACAGTAACCTTATGGTATTAACCTCTGATATAACCTCTG	900	Qy	; PRIORITY FILING DATE: 2002-01-22						
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Qy	1081	TTCATATTACTCTGATCATTGGTACATCTGCAATCTGAAATACCACTCTGAT	1140	Db	; ORGANISM: Solanum tuberosum						
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Qy	; Matches: 1598; Conservative: 0; Mismatches: 0;						0	Indels	0	Gaps	0
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Qy	; 1 AAAATGGAAAGAACCTGGTACATCTGCAATCTGAAATACCACTGGCTGAAATCTG						120				
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Qy	; 1 CAATGTCGATCTGCAATCTGAAATCTGAAATCTGAAATCTG						180				

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301	TGAATCTGGTCAAGGGTACTCGGGTAGGGTGGTTGGCCACCCGGTGCAGT 360	Qy
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361	GCAGGACACCAACAAATGCCAGTCAGAACCTTACCGACCCGGTGTAC 420	Db
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421	ATCCAGTACACCCCCATATAGTGCATCTAGGCGCATCAATGACCCCA 480	Db
481	TTCGGCTCGATCGAACCTCGGACCTCGACCTCGAACGGATCTAATGGGCA 540	Qy
481	TTCGGCTCGATCGAACCTCGGACCTCGACCTCGAACGGATCTAATGGGCA 540	Db
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541	TGGAGCTTGGGTTGGGGTACTCCAGTACAGTAACTGGGAAATTATGGGACA 600	Db
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721	CGTATTATTAACATATACGGGATATGGGCTTGGCACTACGGGATATTAT 780	Db
781	TGGTAAACGTTGGGGAAATTGATAAGCCGGCTAATTGGGATTTTATGAA 840	Qy
781	TGGTAAACGTTGGGGAAATTGATAAGCCGGCTAATTGGGATTTTATGAA 840	Db
841	ATATAGCCCTATAGTTACAGTTACTTATTGGTGTACATTAACCTCTGT 900	Qy
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901	AACGTGCGGAATTCTTCTAAACCTTAAACGAGTATTCACATTTCG 960	Db
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1501	CAAAATCACTAACACAAATAAACTTAAAGAAATTGCGAGATATAA 1560	Db
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; Sequence 1, Application US/110051307		
; Publication No. US2002017095A1		
; GENERAL INFORMATION:		
; APPLICANT: DAI, ZIYU		
; APPLICANT: SHI, LI, FANG		
; APPLICANT: HOOKER, BRIAN S.		
; TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF		
; FILE REFERENCE: 059440/0141		
; CURRENT APPLICATION NUMBER: US/10/051_307		
; CURRENT FILING DATE: 2002-01-22		
; PRIORITY APPLICATION NUMBER: 60/1263_224		
; PRIORITY FILING DATE: 2001-01-23		
; NUMBER OF SEQ ID NOS: 14		
; SOFTWARE: Patentin Ver. 2.1		
; SEQ ID NO 1		
; LENGTH: 1595		
; TYPE: DNA		
; ORGANISM: Solanum tuberosum		
US-10-051-307-1		
Query Match		
Best Local Similarity		
Matches 1546; Conservative 0; Mismatches 48; Indels 5; Gaps 3;		
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Qy 61 AAAATGCAAAAGAACGAGGACACATGGACCTGGCTGAGGGCGGGGTATCTC 120		
Qy 61 AAAATGCAAAAGAACGAGGACACATGGACCTGGCTGAGGGCGGGGTATCTC 120		
Qy 121 CAATGTGTTACAGGATGTTACATCCCTCGGGTACTTTAACTGTTACATTCAC 180		
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Db 1241 CGAAAGTCATCGTGTGATTTGCTTCAACTAAATCTGAAATTCTGAACTTGGCTTCTTCAGGATCTTCAC 300		
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Qy 301 TGAACGTGTCCAAGGGTACTCGCTTGGTTTCCCGAACCCGTCACT 360		
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Qy	361	GCAGGACACCACCAATACCCAGTCATGCAACGACACACCGAAGTTAC	420	Db	1437	GCATCATGTATAATTAGTTAAATAATCTCCTATAAATATACCTCTAAA	1496
Db	361	GCAGGACACCACCAATACCCAGTCATGCAACGACACACCGAAGTTAC	420	Qy	1500	CCAAATACATCTAACACACAAATAAACTTAACCTTAAAGAAATTGCAAGATTAA	1559
Qy	421	ATCCAGTACGACCCATATACCGTCCATCTGTAGTGGCCTAGCGCATCA	480	Db	1497	CTAAAGCCTACATACACAAATAAACTTACGTTTAAATGAAATTGCAAGATTAA	1556
Db	421	ATCCAGTACGACCCATATACCGTCCATCTGTAGTGGCCTAGCGCATCA	480	Qy	1560	ATGGAGGCAAAATAAGTCTATGCTGAACTGGTTGGCTTC	1598
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Db	599	AGGAGAACAAAGAGATCTCAAGTAGCCCATTGTTGTGAAATT	658			APPLICANT: DAI, ZIYU	
Qy	661	AATTATTTTGTGACTTATATAGGAAATAGGCGCTTTGGCACTACCG	720			APPLICANT: SHI, LIFANG	
Db	659	AATTATTTGGTGGACTTATATAGGCAATTGGCGCTTTGGCACTACCG	718			APPLICANT: HOOKER, BRIAN S.	
Qy	721	CGTATTATAACATATCATACTTGTGACTTATTAACGAAATATTAC	780			TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF	
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Db	779	TTCGTAACAGTTGAGGTGAAAAATGTATAAGGCCCTATAATTATT	838			PRIOR APPLICATION NUMBER: US/10/051,307	
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Qy	901	AAGTGAGGAAATTCTTAAACTAAATTTACGAACTTTCACATTTTG	960			SEQ ID NOS: 14	
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Db	1257	CCTATTGTGCAAAATCTTAAAGAACCCCTATGTTAGTGGCTT	1316				
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Qy	1440	GGATCATGTCATAATTGGTTAAAAATCTCTTATAAAATACCTG	1499				

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541	TGACAGTGTGTTGGGTACCTCGATGGACAGCATAGTGAAGTCACAAAGATGTA	600	Db	RESULT 5
541	TGCAAGTTGTTG-CGTACTCTGATGGCGCATAGTGAAGTCACAAAGATGTA	598	Db	US-10-051-307-3
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659	ATTATTTGGTACTTATAGGATACTGGGTTCGGCTTGCACTAGGATTTATT	718	DY	APPLICANT: SHI, LIFANG
721	CCTTATTTAACTATCATACTTGACTAATTAAAGGAATAATTACATATGAT	780	DY	APPLICANT: HOOKER, BRIAN S.
719	CCTTATTTAACTATCATACTTGACTAATTAAAGGAATAATTACATATGAT	778	DY	TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
781	TGGTAAACGTGTTGGGGAAATGTATAAGGCCCTTAATTAACTTATTATGTA	840	DY	FILE REFERENCE: 059440/01/41
779	TGGTAAACGTGTTGGGGAAATGTATAAGGCCCTTAATTAACTTATTATGTA	838	DY	CURRENT APPLICATION NUMBER: US/10/051,307
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901	AACGTGAGGAAATTTCCTAAACTAAATTAAGCAGCTATTTCACATTTTCG	960	DY	NUMBER OF SEQ ID NOS: 14
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961	TGGCCAAAGTCTCTGATACATCTCATGTTACTTITATGTTCTAGCCTTC	1020	DY	LENGTH: 1546
959	TGGCCAAAGTCTCTGATACATCTCATGTTACTTITATGTTCTAGCCTTC	1018	DY	TYPE: DNA
1021	TAGGTACAGTTGAACTAAATCATAAAATGAAAGTAAATTAGTTTTTT	1080	DY	ORGANISM: Solanum tuberosum
1019	TAGGTACAGTTGAACTAAATCATAAAATGAAAGTAAATTAGTTTTTT	1078	DY	FEATURE:
1081	TTCATATTACTCGTATGCAATTGTTGATCAATCTGAAATACTAACCTTCGAT	1140	DY	NAME/KEY: modified_base
1079	TTCATATTACTCGTATGCAATTGTTGATCAATCTGAAATACTAACCTTCGAT	1138	DY	LOCATION: (1248)
1141	TTAAATATCAGCCTCTGCTTAATGGGGAGGTCTATGTTCTGGCAAGT-GTT	1199	DY	OTHER INFORMATION: a, t, c or g
1139	TTAAATATCAGCCTCTGCTTAATGGGGAGGTCTATGTTCTGGCAAGT-GTT	1196	DY	US-10-051-307-3
1200	GATTATTCGATGCAAAATATCTGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1259	DY	Query Match 83.5%; Score 1334.4; DB 13; Length 1546;
1197	GATTATTCGATGCAAAATATCTGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1256	DY	Best Local Similarity 93.8%; Pred. No. 2.3e-283;
1260	CCTTATGATGCAAAATATCTGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1319	DY	Matches 1456; Conservative 0; Mi smatches 87; Indels 10; Gaps 6
1257	CCTTATGATGCAAAATATCTGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1316	DY	QY 49 ATCTTTGTTGAAAAAATTCGAAAAAGAACCTAGGACCATGGACCTTGGTGCACAAAT 108
1320	CGGAGATGGATATTACTATTAAATTAATGGGGAGGTCTATGTTCTGGCAAGT	1379	DY	Db 1 ATCTTGTTGAAAAAATTCGAAAAAGAACCTAGGACCATGGACCTTGGTGCACAAAT 60
1317	CGGAGATGGATATTACTATTAAATTAATGGGGAGGTCTATGTTCTGGCAAGT	1376	DY	QY 109 ATTTGTGTCCTCCAAATGTTGCAAGGATTGTTACATCTCCGGTACTTTAAGCTGAC 168
1380	AAGCTTATCGTGTGAACTTCGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1439	DY	Db 61 ATTTGTGTCCTCCAAATGTTGCAAGGATTGTTACATCTCCGGTACTTTAAGCTGAC 120
1377	AAGCTTATCGTGTGAACTTCGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1436	DY	QY 169 TAGGACATTCCACATTATATTGCGTGCATTGATTGTTCTCCACTCTG 228
1440	GGATCATGTCATGCAAAATATCTGCTTAATACCTGCTATCCCTCTAA	1499	DY	Db 121 TAGGACATTCCACATTATATTGCGTGCATTGATTGTTCTCCACTCTG 180
1437	GGATCATGTCATGCAAAATATCTGCTTAATACCTGCTATCCCTCTAA	1496	DY	QY 229 GATTTGTCGGGCCAAAAGTCATGGTATATTAAATCCATCACTAAAGAATGTCAGCA 288
1320	CGGAGATGGATATTACTATTAAATTAATGGGGAGGTCTATGTTCTGGCAAGT	1379	DY	Db 181 GATTTGTCGGGCCAAAAGTCATGGTATATTAAATCCATCACTAAAGAATGTCAGCA 240
1317	CGGAGATGGATATTACTATTAAATTAATGGGGAGGTCTATGTTCTGGCAAGT	1376	DY	QY 289 AATCTAAAGTTGTTGCACTGTTGCACTGGCTACTGGCTAGGGTTACCC 348
1440	GGATCATGTCATGCAAAATATCTGCTTAATACCTGCTATCCCTCTAA	1499	DY	Db 241 AATCTAAAGTTGTTGCACTGTTGCACTGGCTACTGGCTAGGGTTACCC 300
1437	GGATCATGTCATGCAAAATATCTGCTTAATACCTGCTATCCCTCTAA	1496	DY	QY 349 ACCGGGTGCACTTGGCTGCACTGGCTACTGGCTAGGGTTACCC 408
1377	AAGCTTATCGTGTGAACTTCGCTTAATGGGGAGGTCTATGTTCTGGCAAGT	1436	DY	Db 301 ACCGGGTGCACTGGCTACTGGCTACTGGCTAGGGTTACCC 360
1440	GGATCATGTCATGCAAAATATCTGCTTAATACCTGCTATCCCTCTAA	1499	DY	QY 409 CACCGAAGTTACATCGTACGACCCATACTGGCTATGTTGCACTGGCT 468
1437	GGATCATGTCATGCAAAATATCTGCTTAATACCTGCTATCCCTCTAA	1496	DY	Db 361 CATGGAACTTGGCTGATGCACTGGCTACTGGCTACTGGCT 420
1500	CGAAATACATCTAACACAAATAACTCTAGATTCCTTAAGAAATTCGAGAAATTAA	1559	DY	QY 469 CAATGACCCACATTGGCTGATGCACTGGCTACTGGCTACTGGCT 527
1497	CTAAATGCACTAACACAAATAACTCTAGATTCCTTAAGAAATTCGAGAAATTAA	1556	DY	Db 481 CCCAGACGCTGTTGCACTGGCTACTGGCTACTGGCT 538
1560	ATGGAGGCAAAATAAGTCATGGTGAAGTGGTTGCTTC 1598	598	DY	QY 588 CACAAAGCAGGAGGGAAAAACAAAAGAGTCAGTGGCATGTTGTAAT 598
539	CACAAAGCAGGAGGGAAAAACAAAAGAGTCAGTGGCATGTTGTAAT 598	598	DY	Db 539 CACAAAGCAGGAGGGAAAAACAAAAGAGTCAGTGGCATGTTGTAAT 598

1 / TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF
 1 / FILE REFERENCE: 059440/0141
 1 / CURRENT APPLICATION NUMBER: US/10/903,948
 1 / CURRENT FILING DATE: 2004-07-30
 1 / PRIOR APPLICATION NUMBER: US/10/051,307
 1 / PRIOR FILING DATE: 2002-01-22
 1 / PRIOR APPLICATION NUMBER: 60/263,224
 1 / PRIOR FILING DATE: 2001-01-23
 1 / NUMBER OF SEQ ID NOS: 14
 1 / SOFTWARE: PatentIn Ver. 2.1
 1 / SEQ ID NO: 3
 1 / LENGTH: 1546
 1 / TYPE: DNA
 1 / ORGANISM: Solanum tuberosum
 1 / FEATURE:
 1 / NAME/KEY: modified_base
 1 / LOCATION: (1248)
 1 / OTHER INFORMATION: a, t, c or g
 1 / US-10-903-948-3

Query Match 83.5%; Score 1334.4; DB 21; Length 1546;
 Best Local Similarity 93.8%; Pred. No. 2.3e-283;
 Matches 1456; Conservative 0; Mismatches 87; Indels 10; Gaps 6

948 ATCTCATTTTCGTCGCAAGCTCTGCACTTATCTATGCCATTACTAT 1007
 949 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1067
 950 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1018
 951 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1068
 952 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1075
 953 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1127
 954 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1186
 955 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1135
 956 CGTTCTAGCCTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1245
 957 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1195
 958 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1305
 959 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1253
 960 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1365
 961 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1313
 962 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1425
 963 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1373
 964 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1485
 965 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1433
 966 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1545
 967 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1493
 968 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1598
 969 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 970 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 971 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 972 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 973 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 974 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 975 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 976 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 977 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 978 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 979 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 980 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 981 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 982 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 983 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 984 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 985 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 986 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 987 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 988 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 989 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 990 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 991 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 992 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 993 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 994 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 995 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 996 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 997 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 998 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546
 999 CGTTCTAGGACACTTCTAGGACACGCTTGAACATAAAATGAGATAAAA 1546

SEQ ID NO: 2118
 LENGTH: 735
 TYPE: DNA
 ORGANISM: *Arabidopsis thaliana*
 US-09-938-842A-2118

Query Match 11.7%; Score 186.8; DB 9; Length 735;
 Best Local Similarity 62.4%; Pred. No. 7.5e-31; Gaps 4;
 Matches 367; Conservative 0; Mismatches 202; Indels 19; Gaps 4;

Qy 46 GGTATCCTTGTTGAAAAAATTGAAAGAACGTTAGGACCAACATG-----GACCTTGGG 99
 Db 586 GGATCTTGCTTAAGATCTGAGTACTGATGCTAGTACATGATCCCTGACCTTTCG 527

Qy 100 TGGCAACATATGCTGCTCCAAATTGTTACAGGTTTACATCCTCGGGTACTT 159
 Db 526 TACRAACACTATTCGTTCTCTGAAATACAGTACACGGTTGTCATCACCTGGGCTC 467

Qy 160 TAAGCTGACTAGGACATTACCATTTATATTGCGTGCATGAAATTGTGTCATTTC 219
 Db 466 TCAACACGTTGGAAATTGTCGTTATGTCGCTGATACATGATTCGATGCTTC- 408

Qy 220 CTCCACTTGGATTAGTCGGGCAAAGTCATCGTATTAATCCATCACTAAGAAA 279
 Db 407 -----GAACTAGTGGTAAACTCATAGTGTAAATCCATGACAAGTGA 356

Qy 280 TGTCCCGAAATCTAAGTGTGAACCTGGTCAAGGGTAGGGTACTCGGTAGTTGGT 339
 Db 355 TATCTGAAAGTCATAGTGTGAATTTGGTCAAACTGTAAGTGGT 296

Qy 340 GTTTGCCACCCGGGCACTGGACACCAACATACCCATGCAAACTGGACACTTC 399
 Db 295 GCTGTCCTCCAGGGAGAACATTGAGTGTGAACTCTGAGTGGATCGGCAAC 236

Qy 400 TACCGGCCAACCGGGGAACTTACATCCAACTACGACCCATATACTGGCCATCTGAGTGGTCC 459
 Db 235 GACCTGAGGAGTAAAGTACATGGCTCTACCCAAATCGTGCATTTAGTGGCG 176

Qy 460 TAGGGCATCATGACCCACATTGGCTGATGAGGACCTGGCTATGGGT 519
 Db 175 CGCGACATCTGCTCATGATGGCAGATCAGCTGGGACACTTC- -AGGGT 118

Qy 520 CGATGCCGCCAACGATGTATGGAGCTGGGACTCTCGATATGACAGATAA 579
 Db 117 TGGGGCACCCACGTTGAAACTACATGGT- -TAGGATTTCGATGTCGGTGT 60

Qy 580 GTGAAAGTCACAAAGCCAGAGGGAAACAAAGATCTCAAG 627
 Db 59 GCGGTGGAGATGACCAAAAGTGGAAATATGAAAGTACAGACCAAG 12

RESULT 9
 US-09-938-842A-2118/c
 Sequence 2118, Application US/09938842A
 Publication No. US20040009476A9
 GENERAL INFORMATION
 APPLICANT: Harper, Jeff
 APPLICANT: Kreps, Joe I
 APPLICANT: Wang, Xun
 APPLICANT: Zhu, Tong
 TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
 FILE REFERENCE: SCRIP1300-3
 CURRENT APPLICATION NUMBER: US/09/938,842A
 CURRENT FILING DATE: 2001-08-24
 PRIOR APPLICATION NUMBER: US 60/227,866
 PRIOR FILING DATE: 2000-08-24
 PRIOR APPLICATION NUMBER: US 60/264,647
 PRIOR FILING DATE: 2001-01-16
 PRIOR APPLICATION NUMBER: US 60/300,111
 PRIOR FILING DATE: 2001-06-22
 NUMBER OF SEQ ID NOS: 5379
 SEQ ID NO 2118

RESULT 10
 US-09-770-445-334/c
 Sequence 334, Application US/09770445
 Patent No. US2002023281A1
 GENERAL INFORMATION
 APPLICANT: Gorlach, Jorn
 APPLICANT: An, Yong-Qiang
 APPLICANT: Hamilton, Carol M.
 APPLICANT: Price, Jennifer L.
 APPLICANT: Raines, Tracy M.
 APPLICANT: Yu, Yang
 APPLICANT: Rameka, Joshua G.
 APPLICANT: Page, Amy
 APPLICANT: Matthew, Abraham V.
 APPLICANT: Ledford, Brooke L.
 APPLICANT: Woessner, Jeffrey P.
 APPLICANT: Haas, William David
 APPLICANT: Garcia, Carlos A.
 APPLICANT: Kricher, Maja
 APPLICANT: Slader, Ted
 APPLICANT: Davis, Keith R.
 APPLICANT: Allen, Keith
 APPLICANT: Hoffman, Neil

APPLICANT: Hurban, Patrick
 TITLE OF INVENTION: Expressed Sequences of *Arabidopsis thaliana*
 FILE REFERENCE: 20230US (PARA-0122PRV)
 CURRENT APPLICATION NUMBER: US/09/770,445
 CURRENT FILING DATE: 2001-01-26
 PRIOR APPLICATION NUMBER: US 60/178,472
 PRIOR FILING DATE: 2000-01-27
 NUMBER OF SEQ ID NOS: 999
 SEQ ID NO: 334
 SOFTWARE: FastSEQ for Windows Version 4.0
 LENGTH: 950
 TYPE: DNA
 ORGANISM: *Arabidopsis thaliana*
 US-09-770-445-334

Query Match 11-7*: Score 186 8; DB 9; Length 950;
 Best Local Similarity 62.4%; Pred. No. 8.4e-31;
 Matches 367; Conservative 0; Mismatches 202; Indels 19; Gaps 4;

Qy 46 GGTATCTTGTGTTGAAAAAATGGAAAGAACGTTAGGACCATG----GACCTTGGG 99
 Db 594 GGCATCTCTGTTAAAGATTTGAGTACTCAGTATCGCTACATGATCCTGACCGTTG 535
 Qy 100 TGCAACATATAATGTTGTCCTCAAAATGTTGTTACAGGATGTTACATCCTCCGGTACTT 159
 Db 534 TACAACGTTATGGTGTGTTGAAATACTACAGTACACGGTTGTCGATCACCTGGGTC 475
 Qy 160 TAAGCTGACTAGGACATTACCAATTATATTGGCGTGGATTGAAATTGGCATTTCC 219
 Db 474 TCAACACGTTGGACATTGTCGTTATGTCGCGTTATGTCGCGTACATAGTATCCGATGGCAGTTGTC- 416
 Qy 220 CTCCACTTGGATTAGTCGGCGGAAAGTCATGGTATATAAATCCATCAACTAAAGAA 279
 Db 415 -----GAACCTTGGTTAAACTCCATAGTTGTTAAATCTCACAGTGTGAA 364
 Qy 280 TGTCCCAAGAAATCTAAGTTGTTGAACTGTTGCTCAAGGTTGGTGGTGGT 339
 Db 363 TATCGTAGAGTCTAGTTGTTGAACTGTTGCTAAAGGTTGTTGGTGGTGGT 304
 Qy 340 GTTTGCACCCACCCGGTGCAGTCAGGACACCAAACTACACAGTCATGCCAACCTC 399
 Db 303 GCTGTCACCCACGCCAGTACATTGGTACCTTCACAGTACCCATGGCCAC 244
 Qy 400 TACCGACCAACCGGAGTTACATCCAGTAACTGACCCATATAGTGTCCATGTAGTGGCC 459
 Db 243 GACCTGAGGACTCAAGTACATGTTGCTTACCCAAATTCGGCCATTAGTGGCCG 184
 Qy 460 TAGGGCCTAAATGACCCACATTGGCCTCGATCGAGACTGGCCCTATGGGT 519
 Db 183 CGCGACATCTGGCTCATGATGGCAAGTACGGTGGCCACCTCC--AGGGT 126
 Qy 520 CGATGCCGCCAAAGATGTTGGACAGTGTGGTACCTCGATAGTGTGACAGCATTA 579
 Db 125 TGCGGAGGCCACACGGTGTAACTCATGGTT--TAGGATTTCGAATGGCGGCTGT 68
 Qy 580 GTGAAAGTCACAAAAGCAAGGAAACAAAGAGATCTGAAG 627
 Db 67 GCGGTGAGATGGCAAAAGTGGCAAAACTGAGTAAAGACCAAG 20

RESULT 11
 US-10-636-395-4/C
 Sequence 4, Application US/10636395
 Publication No. US20040073971A1
 GENERAL INFORMATION:
 APPLICANT: Bidney, Dennis L.
 APPLICANT: Crasta, Oswald R.
 APPLICANT: Duvick, Jon
 APPLICANT: Lu, Guina
 TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 Genes and their Uses

APPLICANT: FILE REFERENCE: 5718-90
 CURRENT APPLICATION NUMBER: US/10/636,396
 CURRENT FILING DATE: 2001-08-07
 PRIORITY APPLICATION NUMBER: US/09/589,733C
 PRIORITY FILING DATE: 2000-06-08
 PRIORITY APPLICATION NUMBER: 60/140,646
 PRIORITY FILING DATE: 1999-06-23
 PRIORITY APPLICATION NUMBER: 60/162,904
 PRIORITY FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 41
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 4
 LENGTH: 875
 TYPE: DNA
 ORGANISM: *Helianthus annuus*
 US-10-636-396-4

Query Match 10-6*: Score 168-8; DB 18; Length 875;
 Best Local Similarity 61.3%; Pred. No. 7.5e-27;
 Matches 309; Conservative 0; Mismatches 187; Indels 8; Gaps 2;

Qy 49 ATCTTGTTGTTGAAAAAATGGAAAGAACCTAGGACCTGGACCTTGGTGCACAAAT 108
 Db 577 ATCTGTCGTGAAAAAACCTGATAATACTGGTCCACATTTCAGAGTGGACACAAAT 518
 Qy 109 ATGGTGTCTCCAAATGTTGTTACAGGATGTTGTCATCTCCGGTACTTTAAGCTGAC 168
 Db 517 ACTGATCAGTTGTCACACGGTGCAGGGTTATTGACCCGCCAGAGCCGTAATCTAC 458
 Qy 169 TAGGACATTGACCAATTATATTGGCGTGGATTGAAATTGGTGGCATTTCCCTCCACTTGT 228
 Db 457 CAGGCACTGGCCATTTGATCCGAGTACATGAGATAACCCGGGTGACCC--AT 404
 Qy 229 GATTTGTCGGGGGAAGTCATGCTGTTAAATCCATCAACTAAGAAATGTCGCCAGA 288
 Db 403 TAGATTTGGCTCTAAACACCTGGCAGCATGAACTGAAATGTCGCCAGAATGTCAAAGAA 344
 Qy 289 ATCTAACTGTTGAACTGTTGACTGTTGCTCAAGGGTACTTCGGCTAGGGTTGGTGGTTGGCC 348
 Db 343 AATCAGATGTTGAACTGTTGACTGTTGCAAGGCTACTGGCCAAATGTTGTTGGGGTACCAT 284
 Qy 349 ACCCGGTGCACTGGGACACCAACAAATCAGGTGATGACCAAACTCTACAGCAC 408
 Db 283 AGTTTGGCATTTGGGGAGACCGTTGCAATCACGGTCTGACACTGCTGGCCAGAAC 224
 Qy 409 CACCCAGGTTACATCAGTACAGGCCATATACCTGGCCATGTTGCTAGTGGCCAT 468
 Db 223 CATCAAGTTGCAATGGTTGGCCATATACGGCTCTGGCTGGGCTGGACGG 164
 Qy 469 CAATGACCCACATTGGCTCTGATGAGCTGGTCCATGGCTGATGGCC 528
 Db 163 TTAAAGACCAAGGTTGGCTGAGTTAAGTTGTTGGCTGGCCACCC--AGGACACGGCACCAGC 106
 Qy 529 CCAAAAGATGTTGGCAAGCTGTGTT 552
 Db 105 CCAAAAGGTTGGTGTGTTGAGCTGT 82

RESULT 12
 US-10-636-026-4/C
 Sequence 4, Application US/10636026
 Publication No. US20040111761A1
 GENERAL INFORMATION:
 APPLICANT: Bidney, Dennis L.
 APPLICANT: Crasta, Oswald R.
 APPLICANT: Duvick, Jon
 APPLICANT: Lu, Guina
 TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 Genes and their Uses
 FILE REFERENCE: 5718-90
 CURRENT APPLICATION NUMBER: US/10/636,026
 CURRENT FILING DATE: 2003-08-07

PRIOR APPLICATION NUMBER: US/09/589,733C
 PRIOR FILING DATE: 2000-06-08
 PRIOR APPLICATION NUMBER: 60/140,646
 PRIOR FILING DATE: 1999-06-13
 PRIOR APPLICATION NUMBER: 60/162,904
 PRIOR FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 41
 SOFTWARE: FastSEQ for Windows Version 3.0
 SEQ ID NO: 4
 LENGTH: 875
 TYPE: DNA
 ORGANISM: Helianthus annuus
 US-10-636-056-4

Query Match 10.6%; Score 168.8; DB 19; Length 875;
 Best Local Similarity 61.3%; Pred. No. 7.5e-2; Indels 8; Gaps 2;
 Matches 309; Conservative 0; Mismatches 187; Db 518

Qy 49 ATCTTGTGTTGAAAAATTGGAAAAGAACGTTGAGGACCA CATTGACCTTGGGTGACAAAT 108
 Db 577 ATCTGGGTCTTGGAAACCTGGTGTGTTGAAATTCGAGTTGCAACAT 518

Qy 109 ATGGTTCTCCTCAAATGGTGTGAAACAGGTTGTTACATCTCCGGGTGTTAACCTTAAGTCAC 168
 Db 517 ACTGATGATGTTGTGACGGTCAAGGGTATTGACCCGAGCGGTAAACTCAC 458

Qy 169 TAGGACATTCACATTATAATTGGCTGCAATTGCTCCACTTG 228
 Db 457 CAGGACACTGGCCTTATCGCACTACATGAGATAACCGGGTGCACCC-----AT 404

Qy 229 GATTAGTGGGGGAAGTCATGGPATATAATCCAACTAAAGAATGTCAGA 288
 Db 403 TAGAATGGGTCTAAACCCGGTCAATTGATCGGTTGAAATGTCAGA 344

Qy 289 AATCTAAGTGTGAACTGGTCAAGGGTACTCGGTAGGGTTGGGGTTGCC 348
 Db 343 AATCAAGATGGTGTGAACTGGTCAAAAGGTACTGGCAATGGTGGGGTACAT 284

Qy 349 ACCGGGTGCACTGCAAGGACACCAATCACCACTATGCAAGCTTACAGCAC 408
 Db 283 AATTTTGCAATTGGAGAAGACGGTGAATACCGGTTGCAACCTGGCCGAAC 224

Qy 409 CACCGAAGTTAACATCCGTTACGACCCATAATCGTCCATGTAGTGGCCCTAGGGCAT 468
 Db 223 CATCAAAGTGGAAATTGGTGGCTTGGGCTATACGGGTTCCGGCTGCACTGTGACGG 164

Qy 469 CAATGACCCACATTGGCTCATGAGACGTTGGGAAACGGCTATGTTGGTGATCCGC 528
 Db 163 TTAAGACAGGGTTGGCTGAGTTAATGGCCGCCAC--AGGCACCGCACC 106

Qy 529 CAAAACGATGTATGGACAGTGTGTT 552
 Db 105 CCAAAACGCTGTATGGACAGTGTGTT 82

RESULT 13
 US-10-424-599-103619/c
 Sequence 103619, Application US/10424599
 GENERAL INFORMATION: US/004031072A1
 APPLICANT: La Rosa, Thomas J
 APPLICANT: Kovalic, David K
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 Sequence 103619, Application US/10424599
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53223)B
 CURRENT APPLICATION NUMBER: US/10/424,599
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 285684
 SEQ ID NO: 103619
 LENGTH: 909
 TYPE: DNA

ORGANISM: Glycine max
 FEATURE:
 OTHER INFORMATION: Clone ID: PAT_MRT3847_64586C.1
 US-10-424-599-103619

Query Match 10.1%; Score 161.2; DB 18; Length 909;
 Best Local Similarity 61.1%; Pred. No. 3.6e-25; Indels 7; Gaps 3;
 Matches 314; Conservative 0; Mismatches 193; Db 572

Qy 46 GGATACCTTTGGTTGAAAAATTGGAAAAGAACGTTGAGGACCAATGGTACCTGGGTACTTTAAGCT 105
 Db 631 GGCAACCTTGGCTGAGAATGGATAATAGTGGGAAACAGGGAAATTCAC 572

Qy 106 AATATGTGTTGCTCCAATGTTGAAAGATGTTACATCTCCGGTACTTTAAGCT 165
 Db 571 AGTACTGGTCGGTTGAAAGACAGGTGAACTCTTGTGACCTCTTAGCT 512

Qy 166 GACTAGGACATTCACATTATAATTGGCCNGCATGAAATGTTGGCATTTCCTCCAC 225
 Db 511 CACTAEGGCACTGTGGTAAATGTGGCAAGTGTGCACTCCAT 455

Qy 226 TTGGATTAGTGGGGGAAGTCATGGTATTAAATCTCTAACTAAAGAATOTCC 285
 Db 454 TCG---AGGTGGACTAAAGTCATGGCAAGTGTGAGTGTGCA 398

Qy 286 AGAAATCTAAGTGTGAACTGGCTAATGGCTCAAGGGCTAATGGCTGTTGGTTGTC 345
 Db 397 AGAATGTCAAATTGTTGAAACCGTTAGGGGTATTCAGCAGGGTTGGAGGGCAC 338

Qy 346 CCCACCCGGTGCACCTGAGGACACCAATCACAGTCATGGCAACCTCTACAG 405
 Db 337 CGTAAGCTTTCAGTGGAGAACCCCGCAAGTGTGCACTCCCG 278

Qy 406 CACCCGGAACTTACATCCGTTGACGCCCCATAATGTCATGTTGGCTTGGCG 465
 Db 277 AACCGTCGAACTGGCCGGTTGGCCCAAACGGGCTCTGCTGGAGGCA 218

Qy 466 CATCAATGACCCACATTGGCTTCGATGAGACGTTGGCAACGCCATATGGTC-GATG 524
 Db 217 CGTCACGGACATGACTGGCCGGTTTAATTGGACGCCACGGCAAGAC 558

Qy 525 CGGCCAACGATGTATGGACAGTGTGGGGT 558
 Db 157 CAGCCCGACAGTGTATGGCTGATGTTGTGAT 124

RESULT 14
 US-10-424-599-16321/c
 Sequence 16321, Application US/10424599
 GENERAL INFORMATION: US/004031072A1
 APPLICANT: La Rosa, Thomas J
 APPLICANT: Kovalic, David K
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 Sequence 16321, Application US/10424599
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53223)B
 CURRENT APPLICATION NUMBER: US/10/424,599
 CURRENT FILING DATE: 2003-04-28
 NUMBER OF SEQ ID NOS: 285684
 SEQ ID NO: 16321
 LENGTH: 1956
 TYPE: DNA
 ORGANISM: Glycine max
 FEATURE:
 NAME/KEY: unsure
 LOCATION: (1)-(1956)
 OTHER INFORMATION: unsure at all n locations
 FEATURE:
 OTHER INFORMATION: Clone ID: PAT_MRT3847_132800C.1
 US-10-424-599-36321

Query Match	Score 9.9%	Length 1956;	DB 18;	Length 1956;
Best Local Similarity	61.0%;	Pred. No. 2.1e-0;	Indels 0;	Mismatches 186;
Matches 317;	Conservative	Indels 17;	Gaps 3;	
Qy 45	TGGTATCTTGTGAAAAATTGAAAGAACGTAGGACCA-----TGGACCTTGG 98			
Db 1338	TGGCACCTATCCTTGAAACCTTGTGAACTGCTTGGCCACGCTTGGCATTS 1279			
Qy 99	GTGCAACAAATATTGTTGTCCTCCAAATGTGGTACAGGATTGTACATCTCCGGTAT 158			
Db 1278	GTGCAACAAATATTGTTGTCCTCCAAATGTGGTACATCTCCGGTACATCGGGTGGC 1219			
Qy 159	TTAAGCTGACTAGGACATTCACATTATTCGCTGCAATTGAAATTGTGACATTTC 218			
Db 1218	CTTAATGCCCGGGAACTGCCATTGATTCACGGCTGAACTGATTTGTGACACCA 1159			
Qy 219	CCTCCACTTGGATTAGTCGGCGGAAGTATCGTTATTAATTCATCACTAAAGA 278			
Db 1158	CCG-----TTTAAAGGGTAACTCATTCGCTTAAAGGTGTTGAAACCCGTCACCAA 1108			
Qy 279	ATGTCCCAGAAATCTTAAGTGTGAACTGTTGCAAGGGCTACTCGCTTAAGGTGTTGGT 338			
Db 1107	ATGTCGTAAGAAATCTGGTGCCTAAATGGTTCAACGGAATTCCGAGTGTGGAA 1048			
Qy 339	GGTTGCCCCAACCCGGTGCACGTGAGGAACCCACAAATCACCAGTCATGCACGAACT 398			
Db 1047	GGGACCCCCAACGGCTTGGCAATTGGGCCCGCTCCGGTTGGCACGGCG 988			
Qy 399	CTACAGCAACCCAAAGTACATCGTAGACCCATAACCTGGCATCGTAGTGCCT 458			
Db 987	CGGCGCTGCGCATCAAATGGTGCACGGGCCCCATACGGGCCCTGGCGTGCCT 928			
Qy 459	CTAGGGCATCAATGACCCACATTGGCCCTGATGAGCTGGCACCGCTATCGGG 518			
Db 927	GGGTACCCAGGTTCACTGGTGGCACGGCCACCTCCACCC- CGGAC 870			
Qy 519	TCGATGCCGCCAACGATGTATGACAGTGTGGCGGT 558			
Db 869	TGCGCGGCCACCCGGTAACTGGCAATTGTGACAT 830			

Search completed: June 18, 2005, 02:50:37
Job time : 1005.49 secs

RESULT 15
US-10-424-599-7736/c
; Sequence 7736, Application US/10424599
; Publication No. US20040031072A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J
; APPLICANT: Kovalic, David K
; APPLICANT: Zhou, Yimua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
; FILE REFERENCE: 38-21153223.B
; CURRENT APPLICATION NUMBER: US/10/424,599
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 285684
; SEQ ID NO: 7736
; LENGTH: 1173
; TYPE: DNA
; ORGANISM: Glycine max
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1173)
; OTHER INFORMATION: unsure at all n locations
; FEATURE:
; NAME/KEY: unsure
; LOCATION: (1)..(1173)
; OTHER INFORMATION: Clone ID: PAT_MRT3847_106398C.1
US-10-424-599-7736

Query Match 8.6% Score 137.2; DB 18; Length 1173;
Best Local Similarity 58.7%; Pred. No. 7.7e-20;
Matches 303; Conservative 0; Mismatches 193; Indels 20; Gaps 3;
US-10-424-599-7736
Qy 49 ATCITGTTGAAAAAATTGAAAAAGAACGTAGGACCA-----TGGACCTTGGGTG 102

Query Match	Score 6.6%	Length 605;	DB 18;	Length 605;
Best Local Similarity	61.0%;	Pred. No. 2.1e-0;	Indels 0;	Mismatches 186;
Matches 317;	Conservative	Indels 17;	Gaps 3;	
Qy 45	TGGTATCTTGTGAAAAATTGAAAGAACGTAGGACCA-----TGGACCTTGG 98			
Db 1338	TGGCACCTATCCTTGAAACCTTGTGAACTGCTTGGCCACGCTTGGCATTS 1279			
Qy 99	GTGCAACAAATATTGTTGTCCTCCAAATGTGGTACAGGATTGTACATCTCCGGTAT 158			
Db 1278	GTGCAACAAATATTGTTGTCCTCCAAATGTGGTACATCTCCGGTACATCGGGTGGC 1219			
Qy 159	TTAAGCTGACTAGGACATTCACATTATTCGCTGCAATTGAAATTGTGACATTTC 218			
Db 1218	CTTAATGCCCGGGAACTGCCATTGATTCACGGCTGAACTGATTTGTGACACCA 1159			
Qy 219	CCTCCACTTGGATTAGTCGGCGGAAGTATCGTTATTAATTCATCACTAAAGA 278			
Db 1158	CCG-----TTTAAAGGGTAACTCATTCGCTTAAAGGTGTTGAAACCCGTCACCAA 1108			
Qy 279	ATGTCCCAGAAATCTTAAGTGTGAACTGTTGCAAGGGCTACTCGCTTAAGGTGTTGGT 338			
Db 1107	ATGTCGTAAGAAATCTGGTGCCTAAATGGTTCAACGGAATTCCGAGTGTGGAA 1048			
Qy 339	GGTTGCCCCAACCCGGTGCACGTGAGGAACCCACAAATCACCAGTCATGCACGAACT 398			
Db 1047	GGGACCCCCAACGGCTTGGCAATTGGGCCCGCTCCGGTTGGCACGGCG 988			
Qy 399	CTACAGCAACCCAAAGTACATCGTAGACCCATAACCTGGCATCGTAGTGCCT 458			
Db 987	CGGCGCTGCGCATCAAATGGTGCACGGGCCCCATAACGGGCCCTGGCGTGCCT 928			
Qy 459	CTAGGGCATCAATGACCCACATTGGCCCTGATGAGCTGGCACCGCTATCGGG 518			
Db 927	GGGTACCCAGGTTCACTGGTGGCACGGCCACCTCCACCC- CGGAC 870			
Qy 519	TCGATGCCGCCAACGATGTATGACAGTGTGGCGGT 558			
Db 869	TGCGCGGCCACCCGGTAACTGGCAATTGTGACAT 830			

664 ACCCTCCCTGAAGACTGAAATACTAGTGGCACCCGGACGGCTAC 605
603 AACATATGTTGCTCCTCCAAATGTGGTACATGGATTGTCAAGGATTGTCACTCTCCGGTACTTTAA 162
604 AACACTACTGAGTCCTATGAAAACCGTGCACGGCTTGTGACAGCGGGAAACCTGAA 545
163 GCTGACTAGGACATTCACATTATATTGCGCTGACATGAAATTGTGTCGCAATTCCCTC 222
544 GCTGTTGGGACACTCCGATGTTGTCGGGGCAATTACGGAGCTTCAGTTG 489
223 CACTGGATTAGTCGGGAAACTCATCGTATATTAAATCCATCAACTAAAGAAATGTG 282
488 -----TAGTGTGGCTACCTGCAAGGAATTGTGAAACCTCGTACCTG 437
283 CCCAGAAACTAAGTGTGAACTGTCACAGGGTACTCGGTAGGGCTTGGGTG 342
436 CGTAAAGTGTGAGGTGTTGTTACTGTTGTCAGGAACTCCACAACTGCTGTTGGGTG 377
343 TGCCCAACCGGGTCACTCGGACACCAACAAATCACCAGTATGCAACAACTCTAC 402
376 TACCTGTTTGTGCACTCAAGAACACCTGCGGGTCAAGGACTCTCCGGGTC 317
403 CAGGCCCCGGAAACTTACATCCACATGACCCCATATACTGGCCATTCGTPAGTGCCTAG 462
316 CTGCTTGTGCAAGGAGTTGTCAGTTGTCGTCCTGTCGTCGTTG 257
463 GCGCTTCAATGACCCACATTGGCTCGATGCACTGGCTTACCGCTTATCGGTGCA 522
256 TCACGGTGTGTTCACTGGTCACTGGCTTACGGTTTGCACGGTTTANGCCTTGAGGCCCGCGGGCAACGGCG- 198
523 TGCCGCCAACGATGTTGACAGTGTGGGGT 558
Db 197 -GCCGCCACACCTGAGTTGTCAGTTGTCATTTGTC 163

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Copyright (c) 1993 - 2005	GenCore version 5.1.6	Compugen Ltd.	Sequence 7, Appli
OM nucleic - nucleic search, using bw model			Sequence 7, Appli
Run on:	June 17, 2005, 17:23:59 ;	Search time 260.994 Seconds (without alignments)	Patent No. 5221624
Title:	US-10-051-307-2		Patent No. 5221624
Perfect score:	1598		Sequence 9, Appli
Sequence:	1 gtaatcggactcaatataagg.....tggtaaaggctggttcttc 1598		Sequence 1, Appli
Scoring table:	IDENTITY NUC		Patent No. 5221624
	Gapop 10.0 , Gapext 1.0		Patent No. 5221624
Searched:	1202784 seqs, 818138359 residues		Sequence 3, Appli
Total number of hits satisfying chosen parameters:	2405568		Sequence 1, Appli
Minimum DB seq length:	0		Sequence 2, Appli
Maximum DB seq length:	2000000000		Sequence 28, Appli
Post-processing: Minimum Match 0%			Sequence 22, Appli
Maximum Match 100%			Sequence 12896, A
Listing first 45 summaries			Sequence 17305, A
Database :	Issued_Patents_NA.*		Sequence 1, Appli
	1: /cgn2_6/poddata/1/ina/5A_COMB.seq:*		Sequence 1, Appli
	2: /cgn2_6/poddata/1/ina/5B_COMB.seq:*		Sequence 1, Appli
	3: /cgn2_6/poddata/1/ina/6A_COMB.seq:*		Sequence 1, Appli
	4: /cgn2_6/poddata/1/ina/6B_COMB.seq:*		Sequence 1, Appli
	5: /cgn2_6/poddata/1/ina/PECTUS_COMB.seq:*		Sequence 1, Appli
	6: /cgn2_6/poddata/1/ina/backfiles1.seq:*		Sequence 1, Appli
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.			
SUMMARIES			
Result No.	Score	Query Match Length DB ID	Description
C 1	468.8	29.3	3033 1 US-08-482-037A-1
C 2	419.8	26.3	883 1 US-07-828-798C-4
C 3	419.8	26.3	883 3 US-08-315-68A-4
C 4	419.8	26.3	883 3 US-08-495-519B-4
C 5	419.8	26.3	884 1 US-07-828-798C-5
C 6	419.8	26.3	884 2 US-08-315-68A-5
C 7	419.8	26.3	884 3 US-08-495-519B-5
C 8	168.8	10.6	875 4 US-09-589-733C-4
C 9	144.8	9.1	900 1 US-08-181-711A-4
C 10	144.8	9.1	900 1 US-08-449-515-4
C 11	144.8	9.1	900 1 US-08-444-803-4
C 12	144.8	9.1	900 1 US-08-449-043-4
C 13	144.8	9.1	900 2 US-08-456-262-4
C 14	144.8	9.1	900 1 US-08-456-240-4
C 15	144.8	9.1	900 2 US-08-455-416-4
C 16	144.8	9.1	900 1 US-08-455-244-4
C 17	144.8	9.1	900 2 US-08-454-876-4
C 18	144.8	9.1	900 2 US-08-456-264-4
C 19	144.8	9.1	900 2 US-08-456-265A-4
C 20	144.8	9.1	900 2 US-08-455-736-4
C 21	144.8	9.1	900 3 US-08-971-17-4
C 22	144.8	9.1	900 4 US-09-906-000-4
C 23	144.8	9.1	900 4 US-09-906-234-4
C 24	138.6	8.7	910 4 US-09-685-292-1
C 25	109.0	6.8	894 1 US-08-178-708-7
C 26	109.0	6.8	894 1 US-08-457-552-7
C 27	109.0	6.8	894 1 US-08-456-430-7
Query Match			29.3%; Score 468.8; DB 1; Length 3033;

APPLICANT: Sela-Bourlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 TITLE OF INVENTION: Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/07/828,798C
 FILING DATE: 6-APR-1992
 CLASSIFICATION: 514
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/000089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 23288
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 883
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 SEQ ID NO: 4
 QS-07-828-798C-4

Query Match	Score	DB 1	Length
Best Local Similarity	26.3%	419.8	883
Matches 498	Pred. No.	2.7e-97	
	Mismatches	0	
	Indels	3	
	Gaps	2	
46	GGTATCTTGTGAAATTGAAAGAACGTAGGACCACATCCTCGGGTACTTTAAGCT	105	
605	GCATCTTGTGAAATTGAAAGAACGTAGGACCACATCCTCGGGTACTTTAAGCT	546	
106	AATATGTTGCTCCTCCAAATGTTGAAAGATTTGAAATTCATCCTCGGGTACTTTAAGCT	165	
545	AATATGTTGCTCCTCCAAATGTTGAAATTCATCCTCGGGTACTTTAAGCT	486	
166	GACTAGGACATTACCATTTATTTGCGCTGCAATGAATTGTCGCAATTCCCTCCAC	225	
485	CGGGGGACATTGGCGTTATATTAGCGCTAACATGAATTGCAATGGCATTTCCCTCCAC	426	
226	TGGGATTAGTGGGGCAAACTCATGGTATATTAATCCATCAACTAAAGAAATGTC	285	
425	TAGGGTAACTGGGAAAGTCACTGGAAATGTCATGGAAATGTCATCAACTAAAGAAATGTC	366	
286	AGAAATCTAATGTTGAAACTCATGGTCAAGGGGACTTCGGCTAGGGTGTGGTTTGC	345	
365	AGAAATCTAAACACTGAAATTGTCATGGAAAGGGTATTCAGGCAAGGTGTTGGTTTAC	306	
346	CCACCCGGTGCAGTGGACACCCACAAATCAGGTCATGACGAACCTCTPACCG	405	
305	CCACCCGGTGCAGTGGACACCCACAAATCAGGTCATGGCAAGGTGTTGGCACTGAC	246	
406	CACCCGGGAAAGTACATCCAGAACCCCCATATAGTGGCATCTAGTGGCATCTAGGCG	465	

Db 245 CAGCATGGACTTACATTACTACGCCCATACAGTGCATTAGTACCTCGCCG 186
 Qy 466 CATCATGCCACATTGGCTCATCGAGAGTGGACCGCTATGG-GRCGATG 524
 Db 185 CATTGATCACCCAAAGTTGGCTCATCGAGACGGCCACAGTGGTGCAG 126
 Qy 525 CGGCCAAACAGATGATGGACAGTGGTGGCTACCTCGATAGTGCAG 584
 Db 125 CGCCCAAAACAGATGATGGACAGTGGTGGCTACCTCGATAGTGCAG 68
 Qy 585 AGTCACAAAGCCGAAGGGAAACCAAAAGAGATCTAACAGTCCATGT 637
 Db 67 AGTCACCAAGCCAAAGGAGAAACAAAGAAAGATCTAACAGTGGCCATGT 15

RESULT 3
 US-08-315-868A-4/c
 Sequence 4, Application US/08315868A
 Patent No. 5856151
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 ZIP: 10023
 COMPUTER READABLE FORM:
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/315,868A
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8950
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 883
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE: Nicotiana tabacum
 ORGANISM: Nicotiana tabacum

Query Match 26.3%; Score 419.8; DB 2; Length 883;
 Best Local Similarity 84.0%; Pred. No. 2.7e-97; FILING DATE: 31-MAY-1995

Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2;
 Qy 466 GGTATCTTGTGTTGAAAATTGGAAAAGACGTTAGGACCATGACCTTGGTGCAC 105
 Db 605 GGCATCTTGTGTTGAAAATTGGAAAATGTTGAGAAATGTTGCTTGTGTCAC 546
 Qy 106 AATATGTTGTTCTCCMCACAAATGTTGACAGGATGTTACCTCTCGGACTTTAAGT 165
 Db 545 AATATGTTGTTCTCGGAAATGTTACAGGGTTATTACCTCTCGGAAACCTTAAGT 486
 Qy 166 GACTTGGACATTACACATTATAATTGGCGATGATTGTTGGCATCTCCCTCCAC 225
 Db 485 CGGGGGCATTCGCGTTATATAGCGTACATGATGATGTTCCCTCCAC 426
 Qy 226 TTGGATTAGTCTGGCCGAAAGTCATCGTATAATCATCACTAAAGAATGTCAC 285
 Db 425 TAGGTTAATGCGCCGAAAGTCATGGAAATGTTGAAATCATCACTAAAGAATGTCAC 366
 Qy 286 AGAAATCTAAGTGTGAACTGGTCAAGGTTACTCGGTAGGGTTGGTTGC 345
 Db 365 AGRAATCTAAACCCTGAATGTTGTCAAAGGTGTTGCAAGCTAAGGTGTTGTTAC 306
 Qy 346 CCCACCGGTTGCACTGGAGACACCCACAAATGACCGAGTCAAGCTTACAG 405
 Db 305 CCCACCGGTTGCACTGGTCACTGAGACTCACCACAGTCAAGGTGTTGCAAGCTTAC 246
 Qy 406 CACCAAGGAGTTACATCGATGACCCATATAGTGCCTATGTTGGCG 465
 Db 245 CAGGTTGAGGTTACATTAGTACGGCCCATACAGTGCCTATGTTGGCG 186
 Qy 466 CATTAAATGACCCACATTGGCTCGATGAGCTGGCACCGCTATGG-GRCGATG 524
 Db 185 CATTGATCACCAAGTTGGCTCGATGAGCCGGCACCCTATGGTGCAG 126
 Qy 525 CGGCCAAACAGATGATGGACAGTGTGGGTTACCTGATAGTGCACGGCATAGTGA 584
 Db 125 CGGCCAAACGGTTACAGTGGACAGTGTGGTGT-TCGACCTGATAGTGCACGGCATAGTATA 68

RESULT 4
 US-08-495-819B-4/c
 Sequence 4, Application US/08495819B
 Patent No. 6087161
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/495-819B-4/c
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8950
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 883
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum

US-08-495-819B-4/c
 Sequence 4, Application US/08495819B
 Patent No. 6087161
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/495-819B-4/c
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8950
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 883
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum

CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 09/315,868
 FILING DATE: 30-SEPT-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APRIL-92
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE DOCKET NUMBER: U-010255-1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEX: (212) 246-8959
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 983
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE: Nicotiana tabacum
 US-08-495-19B-4

Query Match 26.3%; Score 419.8; DB 3; Length 883;
 Best Local Similarity 84.0%; Pred. No. 2.7e-97;
 Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2;

Qy 46 GGTATCTGTGTCCTCCAAATGTTGAAAGAAAGTAGGAGCCACATGGACCTGGGTGCAAC 105
 Db 605 GGCATCTTGTGTCATGAAATTTGAAAGAAATGTTGAAAGCCCTTAAGTT 546

Qy 106 AATATTGTTGTCCTCCAAATGTTGAAAGAGATTGTTACATCCTCCGGTACTTTAACGT 165
 Db 545 AATATTGTTGTCCTCCAAATGTTGAAAGAGTTAACATCCTCCGGAAACCTTAAGTT 486

Qy 166 GACTAGGACATTCACCATTTATATTGCGGCCATGATGTTGGCATTTCCTCCAC 225
 Db 485 CCCGGGACATTCGCCCTTTATATTGCGTACATGATGTTGGCATTTCCTCCAC 426

Qy 226 TGGATTAGTGTGAACTGGTATTAATCCATCAACTAAAGAAATGTCCC 285
 Db 425 TAGGGTTAGTCGGGGAAAGTCATGGAAATGTTGAAATGTTCCC 366

Qy 286 AGAAATCTAAGTGTGAACTGGTCAAGGGTACTGGTGTAGGGTTGGTTGC 345
 Db 365 AGAAATCTAAGCTGAACTGTTGCAAAAGCTATTCGCAAGGGTTGGTTAC 306

Qy 346 CCCACCCGGTGCACCTGGGACACCAACATCAGCTGGTCAACGAAACCTCTACAG 405
 Db 305 CCCACCCGGTGCACCTGGGACACCAACATCAGCTGGTCAACGAAACCTCTACAG 246

Qy 406 CACCAACGGTACATCAGTACAGGCCATGACGCCATGCGTGGCTGCGCTGG 465
 Db 245 CAGCATGGTACATGATGAACTGTTGCGCCATAGCTGGCCATTTAGCTCGTGGCG 186

Qy 466 CATCAATGCCACATGGCTCTCGATGAGACGTCGGCTTACCGTGGTGTGAGT 524
 Db 185 CATTGATAACCGAACGGTGGCTGAGCTGGCTGAGACGCCATGCGCTTACCG 126

Qy 525 CGGCCAAACGATGTGACAGTGTGGGTACTCTGATAGTGCACGATAAGTCAA 584
 Db 125 CGGCCAAACGCGTACAGCTGGCTTACAGTGGCTTACAGTGGCTGAGTCAA 68

Qy 585 AGTCACAAAGCCAGAAGGGAAACAAAGATCTCAAGTACGCCATGT 637
 Db 67 AGTCACCAAGGGAAAGGAAACAAAGATCTCAAGTTCGCTGCACTGT 15

RESULT 5
 US-07-828-798C-5/C
 Sequence 5, Application US/07828798C
 Patent No. 5389609
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meichers, Leo S.
 APPLICANT: Maulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buirlsen, Mariane B.
 APPLICANT: Van Den Brilzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 KB storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 06-APR-1992
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE: Nicotiana tabacum
 ORGANISM: Nicotiana tabacum
 US-07-828-798C-5

Query Match 26.3%; Score 419.8; DB 1; Length 884;
 Best Local Similarity 84.0%; Pred. No. 2.7e-97;
 Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2;

Qy 46 GGTATCTGTGTCATGAAAGAAAGTAGGAGCCATGACCTGGTCAAC 105
 Db 605 GGCATCTTGTGAAAGAAATGTTGAAAGCCCTTAAGTT 546

Qy 166 GACTAGGACATTCACCATTTATATTGCGGCCATGATGTTGGCATTTCCTCCAC 225
 Db 485 CCCGGGACATTCGCCCTTTATATTGCGTACATGATGTTGGCATTTCCTCCAC 426

Qy 226 TGGATTAGTGTGAACTGGTATTAATCCATCAACTAAAGAAATGTCCC 285
 Db 425 TAGGGTTAGTCGGGGAAAGTCATGGAAATGTTCCC 366

Qy 286 AGAAATCTAAGTGTGAACTGGTCAAGGGTACTGGTGTAGGGTTGGTTGC 345
 Db 365 AGAAATCTAAGCTGAACTGTTGCAAAAGCTATTCGCAAGGGTTGGTTAC 306

Qy 346 CCCACCCGGTGCACCTGGGACACCAACATCAGCTGGTCAACGAAACCTCTACAG 405
 Db 305 CCCACCCGGTGCACCTGGGACACCAACATCAGCTGGTCAACGAAACCTCTACAG 246

Qy 406 CACCAACGGTACATCAGTACAGGCCATGACGCCATGCGTGGCTGCGCTGG 465
 Db 245 CAGCATGGTACATGATGAACTGTTGCGCCATAGCTGGCCATTTAGCTCGTGGCG 186

Qy 466 CATCAATGCCACATGGCTCTCGATGAGACGTCGGCTTACCGTGGTGTGAGT 524
 Db 185 CATTGATAACCGAACGGTGGCTGAGCTGGCTGAGACGCCATGCGCTTACCG 126

Qy 525 CGGCCAAACGATGTGACAGTGTGGGTACTCTGATAGTGCACGATAAGTCAA 584
 Db 125 CGGCCAAACGCGTACAGCTGGCTTACAGTGGCTTACAGTGGCTGAGTCAA 68

Qy 585 AGTCACAAAGCCAGAAGGGAAACAAAGATCTCAAGTACGCCATGT 637
 Db 67 AGTCACCAAGGGAAAGGAAACAAAGATCTCAAGTTCGCTGCACTGT 15

Qy 226 TGGATTAGTGTGAAAGTCATGGTATTAATCCATCAACTAAAGAAATGTCCC 285
 Db 425 TAGGGTTAGTCGGGGAAAGTCATGGTATTAATCCATCAACTAAAGAAATGTCCC 366

TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum

US-08-315-868A-5

Query Match 26.3%; Score 419.8; DB 2; Length 884;
 Best Local Similarity 84.0%; Pred. No. 2.7e-97;
 Matches 498; Conservative 0; Mismatches 92; Indels 3; Gaps 2

Qy 46 GGTATCTTGTGTAATGGACCATGGACCTTGGGTGCAAC 105
 Db 605 GGCATCTTGTGTAATGGACCATGGACCTTGGGTGCAAC 546

Qy 46 GGTATCTTGTGTAATGGACCATGGACCTTGGGTGCAAC 105
 Db 605 GGCATCTTGTGTAATGGACCATGGACCTTGGGTGCAAC 546

Qy 106 AATATGTTGTCCTCAATGTTGACAGGTTACCTCGGTACTTAAGCT 165
 Db 545 AATATGTTGTCCTCGATGAGGTATTACCTCGGGAAACCTTAAGCT 486

Qy 166 GACTGGGACATTACACATTATATTGGCGTCAATGAAATTCCCTCCAC 225
 Db 485 CGGGGACATTGCGTTATATTGCGTACATGAAATTCCCTCCAC 426

Qy 226 TGGATTTAGTCGGGGAAAGTCATGGTATTAATCCATCAACTAAAGAAATTCTCC 285
 Db 425 TAGGGTTAGTCGGGGAAAGTCATGGATGTTGAATCCATCAACTAAAGAAATTCTCC 366

Qy 286 AGAAATCTAAGTGTGAACTGGTACTGGTTAGGGTTGGTTGTC 345
 Db 365 AGAAATCTAACCCTGATGGTCAGGTGTTGGTTGTTAC 306

Qy 346 CCCACCCGGTGCACCTGGAGACCAACCAATCACCACTTGTACCCAG 405
 Db 305 CCCACCCGGTGCACCTGGAGACCAACCAATCACCACTTGTACCCAG 246

Qy 406 CACCAAGGAGTTACATCGTGGACCCATACAGTGCATCTAGTCCCTGGCG 465
 Db 245 CAGCATGAGTTACATTAGTGGCCCATACAGTGCATCTAGTCCCTGGCG 186

Qy 466 CATAAATGACCCACATTTGGCTTCATGGAGCGTGGGACCTGGTACGGATG 524
 Db 185 CATGATGAGTTACATTAGTGGCCCATACAGTGCATCTAGTCCCTGGCG 126

Qy 525 CGGCCCAAAGGATGATGGACAGTGTGGTCACTCGTAACTGACAGCATAAGTGA 584
 Db 125 CGGCCCAAAGGTTACGGTACGGACAGTGTGTTAGTGGACGATAAGTATA 68

Qy 585 AGTCACAAAGGCCAGAAGGGAGAACCAAAAGAAAGATCTCAAGTAGGCCATGT 637
 Db 67 AGTCACCAAGGCCAGAAGGGAGAACCAAAAGAAAGATCTCAAGTAGGCCATGT 15

RESULT 6
 US-08-315-868A-5/C
 ; Sequence 5, Application US/08315868A

GENERAL INFORMATION:
 ; Patent No. 585651

APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.

TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi

TITLE OF INVENTION: Decreased Susceptibility to Fungi

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/315,868A
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91

ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 300866
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 LENGTH: 884

RESULT 7
 US-08-95-819B-5/C
 ; Sequence 5, Application US/08495819B
 ; Patent No. 6087161

GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Sela-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi

TITLE OF INVENTION: Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi

NUMBER OF SEQUENCES: 7

CORRESPONDENCE ADDRESS:
 ADDRESSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York

COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/495,819B
 FILING DATE: 31-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/315,868
 FILING DATE: 30-SEPT-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APRIL-92
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass, Clifford J.
 REGISTRATION NUMBER: 30086
 REFERENCE/DOCKET NUMBER: U-010255-1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-495-819B-5

Query Match 26.3%; Score 419.8; DB 3; Length 884;
 Best Local Similarity 84.0%; Pred. No. 2.7e-97;
 Matches 498; Conservative 0; Mismatches 225; Indels 3; Gaps 2;

Qy 4 6 GGTATCTTGTGTGAAAAAATTGGAAAAAGACGTAGGACCATGGACCTGGTCAAC 105
 Db 605 GGCATCTTGTTGAATAATTGAGAAATTGAGAAATTGAGACCAAAAGTCTGTGCAAC 546
 Qy 106 AATATTTGTGTCTCCAATATGGTACAAGGATTGTTACATCCTCGGTACTTTAAGCT 165
 Db 545 AATATCTTGTCCTCCAAATGTAGTACAAGGTTTATTCATCCTCGGAACCCPAAAGT 486
 Qy 226 TTGGATTA GTCGGGCAAACTCATCGTATTAATCCATCAACTAAAGAAATTGCC 285
 Db 425 TAGGTTAGTCGGGCAAAAGTCATGGATTTGATCAAAATGTC 366
 Qy 286 AGAAATCTAAGTTGTGAACTGGTCAAGGGTACTCGGTAGGGTTCTGGTGGTTG 345
 Db 365 AGAAATCTAAACCTGAACTGTCMAAGCTTACGGTGTGGTTAAC 306
 Qy 346 CCCACCGGTGCACTGGACACCATCACAGTCATGCAAACTCCTACAG 405
 Db 305 CCCACCGGTGCACTGGACTCATGGTCAAGCTCCACAGTCACTGGTGTGGTTAC 246
 Qy 406 CACCA CGGAA GTTACATCGTCACTGACGCCCATATACGGCCATGTGGCTTACGG 465
 Db 245 CAGCATGAA GTTACATTAAGTACGGCCCATACGGTCACTGGTGTGG 186
 Qy 466 CATCAATGACCCACATTTGGCTCGATCGAGACGTGGGCAACGGCTTACGG-GTGGATG 524

Db 185 CATTGATCACCCAAATTGGCTCGATCGAGACGGGGCAACGGCTATGGGTGGACG 126
 Qy 525 CGGCCAACATGATGGAGCTTGGGTGACTTGGCTGATAGTGGACGATATGGTGGACG 584
 Db 125 CGGCCAACCTGGTACGGACATGTTCTT - TCGGACCTCGATAGTGGCAGATACTATA 68
 Qy 585 AGTCACRAAAGCGAGGGAAACCAAAAAGATCTCAAGTACGCCATGTGGCCATGT 637
 Db 67 AGTCACCAAGCGAGGGAGAACACAGAGATCTCAAGTACGCCATGTGGCCATGT 15

RESULT 8
 US-09-589-733C-4/c
 ; Sequence 4, Application US/09589733C
 ; Patent No. 6677503
 ; GENERAL INFORMATION:
 ; APPLICANT: Bidney, Dennis L.
 ; APPLICANT: Crasta, Oswald R.
 ; APPLICANT: Duvick, Jon
 ; APPLICANT: Hu, Xu
 ; APPLICANT: Lu, Guihua
 ; TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 ; TITLE OF INVENTION: Genes and their Uses
 ; FILE REFERENCE: 5718-90
 ; CURRENT APPLICATION NUMBER: US/09/589,733C
 ; CURRENT FILING DATE: 2000-06-08
 ; PRIOR APPLICATION NUMBER: 60/140,646
 ; PRIOR FILING DATE: 1999-06-23
 ; PRIOR APPLICATION NUMBER: 60/162,904
 ; PRIOR FILING DATE: 1999-11-01
 ; NUMBER OF SEQ ID NOS: 41
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 4
 ; LENGTH: 875
 ; TYPE: DNA
 ; ORGANISM: Helianthus annuus
 US-09-589-733C-4

Query Match 10.6%; Score 168.8; DB 4; Length 875;
 Best Local Similarity 61.3%; Pred. No. 3.5e-33;
 Matches 309; Conservative 0; Mismatches 187; Indels 8; Gaps 2;

Qy 49 ATCTTGTTGAAAAAATTGGAAAAAGAACCTGGACCATGGACCTGGGTGCAACAT 108
 Db 577 ATCTGGTCTCCTAAACCTGTATAATCAGTGGTCACTATTCAGATGTCACAT 518
 Qy 109 ATGGTGTCTCCAATATGGTACAAGGATTGTTACATCCTCGGTACTCTTAAGCTGAC 168
 Db 517 ACTGACAGTTGTACACGTGGTATGGACATACTGGTCAAGCTGACCC-----AT 404
 Qy 169 TAGGACATTCCATTATTTGGCTGATTGATTTGGATTTCCTCCACTTG 228
 Db 457 CAGGACACTGGCCATTGATTCGGTGTACATGAGATACTGGGTGACCC-----AT 458
 Qy 229 GATTAGTCGGGGAAAGTCATGGTATAATTAAATCATACTAAAGAAATGTCAGA 288
 Db 403 TTAGATTTGGCTCATACCCATTGGCATTTGTCACAGAATGTCAGA 344
 Qy 289 AATCTAAGTTGTGAACTGGTCAAGGGTACTCGGTAGGGTTCTGGTGGTTCCC 348
 Db 343 AATCAAGATTTGAACTGGTCAAGGTACTGCCATTGTTGAGGGGGGACCAT 284
 Qy 349 ACCGGTGTGCACTGGCAACGCCATACGGCTTACGGCTTACGGCAC 408
 Db 283 AGTTTGGCTATTGGAGGAGCGTTCATCCGCTCTGACACTGGCTCCAGAAC 224
 Qy 409 CACCGAGTTACATCGTACGCCATATACGGCCATGTGGCTTACGGCAT 468
 Db 223 CATTGAGTTGCAATGGTCTGGGGCATATACGGCTTCTGGCTTACGGCAT 164
 Qy 469 CAATGACCCACATTTGGCTCGATCGAGACGTGGGCAACGGCTTACGGCTG 528
 Db 163 TAAAGACCGGTTGGCTGAGTTAGTGTGGCCACCGCACAC - AGGCACCGCAC 106

RESULT 9

Qy	529	CCAAACGATGATGGACAGTTGTT	552
	US-08-181-271A-4/C	Sequence 4, Application US/08181271A	
Db	Patent No. 5614395		
	105	CCAAACGATGATGGACAGTTGTT	82

GENERAL INFORMATION:

APPLICANT: Ryals, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Duesing, John H.

APPLICANT: Friedrich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Hams, Christian

APPLICANT: Mains Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean-Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph

APPLICANT: Steinson, Jeffrey R.

APPLICANT: Urnes, Scott J.

APPLICANT: Ward, Eric R.

APPLICANT: Williams, Shericca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC DNA SEQUENCES AND USES THEREOF

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

COUNTRY: USA

ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent-in Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/181,271A

FILING DATE: 13-JAN-94

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,197

FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,556

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,657

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1983

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

Db 83 GAAACAGGCTACAAA 70

RESULT 10
US-08-449-315-4/C
Sequence 4, Application US/08449315
Patent No. 5650505

GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyes, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uknes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:
MEDIA TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/449,315
FILING DATE: 24-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-FEB-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/768,122
FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919) 541-8614
TELEFAX: (919) 541-8689
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-449-315-4

Query Match 9.1%; Score 144.9; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 4.8e-27;
Matches 335; Conservative 0; Mismatches 197; Indels 22; Gaps 5;

Qy 46 GGTATCTTGTGAAAAAATTGAAAGAACGTAAGGACCAT----GGACCTGGG 99
Db 607 GGCATCTTCTTAATTAATCTGCATAATCTGAGGCCATGATCCAGGCCATTTG 548

Qy 100 TCCAAACATATTTGTTGCTCCAAATATGGTACAAGGATTTTAACATCCCTGGGTACTT 159
Db 547 TACAAACATATTTGTTTATACAGTACATGGTTAACATCCACCTTGTT 488

Qy 160 TAAGCTGACTGGACATCAGATTATAATTGCGCTGCATTGAAATTGTCGGCATTC 219
Db 487 TCAACTGTCTGGCATTTGTTAATAGTTGCTGCACTGTGAGATTGACAT---- 432

Qy 220 CTCCACTGGATTAGTGGGGGAAGTCATGGTATAATTAAATCCATCACTAAGAA 279
Db 431 ----CTTCCCATGGGTGAACTCCATGGGTAAATCCATCACTAAGGAGA 377

Qy 280 TGTCCAGAAATCTAACTTGTGAACTTGTGAACTGGTCAAGGGTACTCGGTAGGGTTGGT 339
Db 376 TGTGACAAGTC----CTGATGGGTGATAAGGAAATTGAGTAAGTGTAGGT 320

Qy 340 GTTGGCCCAACGGGACTGCACTGCAAGAACATCCATGAACTTGGGAACTTC 399
Db 319 CTTTCCATGGCTGAACTTGGGAAATTGCACTTGGGAACTTC 260

Qy 400 TACCGACCCACGAGTTACATCAGTACCCATATACGGCATCTGATGGCCC 459
Db 259 GGCCTAGGCCATGAACTTGGGAACTTGGGAACTTC 200

Qy 460 TAGGGGATCATGAACTGCACTTGGGTCAATCGAGACGTTGGGACCCCTATCGGT 519
Db 199 GGTTCACATTATGCTCAAGTGGCTGAGTCGGCTGCTCCACCACTGGAGA 142

Qy 520 CGATGGGCCAAAGGATGATGGACAGTTGGGTCACTGATACTGACAGGCTAA 579
Db 141 GCGCGGCCAGAACATGCTGAGTGGCTGAGTGTGAC-AAATGTCAAAAGTGGCAGCATGA 84

Qy 580 GTGAAAGTCACAA 593

RESULT 11
US-08-444-903-4/C
Sequence 4, Application US/08444803
Patent No. 5654414
GENERAL INFORMATION:
APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alce
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Urnes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/444,803
FILING DATE: 19-MAY-1995
CLASSIFICATION: 536
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/305,566
FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/165,667
FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/042,847
FILING DATE: 6-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/632,441
FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/425,504
FILING DATE: 20-OCT-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/848,504

Db 83 GTAAACAGGTACAA 70

RESULT 12

Sequence 4 , Application US/08449043

Patent No. 5688044

GENERAL INFORMATION:

APPLICANT: Ryals, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Duesing, John H.

APPLICANT: Friedreich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Harnis, Christian

APPLICANT: Meins, Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean-Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christopher

APPLICANT: Stinson, Jeffrey R.

APPLICANT: Uunes, Scott J.

APPLICANT: Ward, Eric R.

APPLICANT: Williams, Sheriicca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC

TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

COUNTRY: USA

ZIP: 10532

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC Compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/449,043

FILING DATE: 24-MAY-1995

CLASSIFICATION: 900

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,197

FILING DATE: 6-NOV-1992

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,667

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/768,122

FILING DATE: 27-SEP-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/580,431

FILING DATE: 7-SEP-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672

FILING DATE: 20-JUN-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/329,018

FILING DATE: 24-MAR-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/045,957

FILING DATE: 12-APR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Elmer, James Scott

REGISTRATION NUMBER: 36,129

REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919)541-8614

TELEFAX: (919)541-8689

INFORMATION FOR SEQ ID NO:

SEQUENCE CHARACTERISTICS:

LENGTH: 900 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-08-449-043-4

Query Match 9 11; Score 144 9; DB 1; Length 900;

Best Local Similarity 60 5%; Pred. No. 4.8e-27; Indels 22; Gaps 5;

Matches 335; Conservative 0; Mismatches 197; Indexes 197;

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Db 141 GCGCGCCCGAGCTGAGTTGGTACGTGAGTTGAC-AATGTCAAAAGTGGCAGCATGA 84

Qy 580 GTGAAAGTCACAA 593

APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Spersson, Christoph
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Uunes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 106
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,416
FILING DATE: 31-MAY-1995
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
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FILING DATE: 6-FEB-1989
PRIOR APPLICATION DATA:
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FILING DATE: 8-MAR-1988
PRIOR APPLICATION DATA:
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FILING DATE: 21-DEC-1990
PRIOR APPLICATION DATA:
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FILING DATE: 20-OCT-1989
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FILING DATE: 27-SEP-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018

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; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/045,957
; FILING DATE: 12-APR-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: EINER, James Scott
; REGISTRATION NUMBER: 36,1129
; REFERENCE DOCKET NUMBER: S-19825/P1/CGC 1727
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919)511-8614
; TELEFAX: (919)541-8689
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 900 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-455-416-4

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Best Local Similarity 60.5t;  Pred. No. 4.8e-27;
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APPLICANT: Duesing, John H.
APPLICANT: Friedrich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harms, Christian
APPLICANT: Mens, Jr., Frederick
APPLICANT: Montoya, Alice
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APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sparison, Christopher
APPLICANT: Stansion, Jeffrey R.
APPLICANT: Urebs, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.
TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
NUMBER OF SEQUENCES: 1066
CORRESPONDENCE ADDRESS:
ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
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APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JUN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
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FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018

Search completed: June 17, 2005, 19:51:55
Job time : 263.994 secs

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			; APPLICANT: SHI, LIFANG
			; APPLICANT: HOOKER, BRIAN S.
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8	2118. Ap	9	US-09-938-842A-2118
	Copyright (c) 1993 - 2005 Compugen Ltd.		Sequence 2118, Ap
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Run on:	June 17, 2005, 19:35:47 ;	Search time 999.61 Seconds	Sequence 2118, Ap
	(without alignments)		Sequence 334, Ap
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Title:	US-10-051-307-1		Sequence 4, Appli
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Searched:	6054689 seqs, 3109772919 residues		Sequence 2928, A
Total number of hits satisfying chosen parameters:	12109378		Sequence 777, Ap
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21: /cen2_6/ptodata/1/pubnpa/us10J_PUBCOMB.seq:*			PRIOR FILING DATE: 2001-01-23
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24: /cen2_6/ptodata/1/pubnpa/us11I_NEW_PUB.seq:*			SEQ ID NO: 1
25: /cen2_6/ptodata/1/pubnpa/us60_NEW_PUB.seq:*			LENGTH: 1595
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			US-10-051-307-1
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Score 1595 ; DB 13 ; Length 1595;			
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2	1595	100.0	1595 21 US-10-903-948-1
3	1482.2	92.9	1598 13 US-10-051-307-2
4	1482.2	92.9	1598 21 US-10-903-948-2
5	1362.4	85.4	1546 13 US-10-051-307-3
6	1362.4	85.4	1546 21 US-10-903-948-3
7	293.4	18.4	510 17 US-10-341-961A-171
8	2118. Ap	9	US-09-938-842A-2118
	Copyright (c) 1993 - 2005 Compugen Ltd.		Sequence 2118, Ap
	OM nucleic - nucleic search, using SW model		Sequence 2118, Ap
Run on:	June 17, 2005, 19:35:47 ;	Search time 999.61 Seconds	Sequence 2118, Ap
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	9904.902 Million cell updates/sec		Sequence 36321, A
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	(without alignments)		Sequence 389, Ap
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Scoring table:	IDENTITY_NUC		Sequence 86607, A
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5: /cgmr2_6/ptodata/1/pubnpa/us07_NEW_PUB.seq:*			Sequence 10107, A
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20: /cen2_6/ptodata/1/pubnpa/us10I_PUBCOMB.seq:*			PRIOR APPLICATION NUMBER: 60/1263,224
21: /cen2_6/ptodata/1/pubnpa/us10J_PUBCOMB.seq:*			PRIOR FILING DATE: 2001-01-23
22: /cen2_6/ptodata/1/pubnpa/us10K_PUB.seq:*			NUMBER OF SEQ ID NOS: 14
23: /cen2_6/ptodata/1/pubnpa/us11A_PUBCOMB.seq:*			SOFTWARE: PatentIn Ver. 2.1
24: /cen2_6/ptodata/1/pubnpa/us11I_NEW_PUB.seq:*			SEQ ID NO: 1
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26: /cen2_6/ptodata/1/pubnpa/us60_PUBCOMB.seq:*			TYPE: DNA
			ORGANISM: Solanum tuberosum
			US-10-051-307-1
Query Match 100.0% ; Best Local Similarity 100.0% ; Matches 1595 ;			
Score 1595 ; DB 13 ; Length 1595;			
Result No.	Score	Match Length	DB ID
1	1595	100.0	1595 13 US-10-051-307-1
2	1595	100.0	1595 21 US-10-903-948-1
3	1482.2	92.9	1598 13 US-10-051-307-2
4	1482.2	92.9	1598 21 US-10-903-948-2
5	1362.4	85.4	1546 13 US-10-051-307-3
6	1362.4	85.4	1546 21 US-10-903-948-3
7	293.4	18.4	510 17 US-10-341-961A-171
8	2118. Ap	9	US-09-938-842A-2118
	Copyright (c) 1993 - 2005 Compugen Ltd.		Sequence 2118, Ap
	OM nucleic - nucleic search, using SW model		Sequence 2118, Ap
Run on:	June 17, 2005, 19:35:47 ;	Search time 999.61 Seconds	Sequence 2118, Ap
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Qy	181 CATTATATTGCGCGCATGANTGTTGTTGCACTTCCCTCACCTGGAATTGGGG 240	Db	1261 TTGATGCCAAATATCPATTAAAGAACCCCTATTCTGCTTATTATTCAGATCGGA 1320
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Db	241 CGAAAGTCATCGTATAATATCCATCAACTAAAGAAATGTCAGTGT 300	Qy	1381 TTATCTCGATCCATTAAATAACGTTAGTATGGCTGTTTAAAGAACAGTGGAT 1440
Qy	301 TGAACCTGTCAAAGGGTAACTCGGCTAGGGTTTGGCTTGCCTGCAC 360	Db	1381 TTATCTCGATCCATTAAATAACGTTAGTATGGCTGTTTAAAGAACAGTGGAT 1440
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Qy	361 CGAGGACCCACACATCACAGTATGGCAACCTTACAGGACACATGAACTAC 420	Db	1441 CATGTTAAATTAGTTAAATAATCTCCATTAAATAACTCTTAAACTAA 1500
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Qy	541 TGGACACTGTGCGTACCTCGTCACTGGCAACATAGTGAAGTCACAAAGCAAG 600	Db	Sequence 1, Application US/10903948 ; Publication No. US20050005324A1
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Qy	601 GGAGAAACAAAGAGAGATCTAAAGTGGCCATGTTGTAAGTGGAAATTATATGTGACAAA 660	Db	; CURRENT FILING DATE: 2004-07-30 ; PRIOR APPLICATION NUMBER: US/10/051, 307
Db	601 GGAGAAACAAAGAGAGATCTAAAGTGGCCATGTTGTAAGTGGAAATTATATGTGACAAA 660	Qy	; PRIOR FILING DATE: 2002-01-22 ; PRIOR APPLICATION NUMBER: 60/263, 224 ; PRIOR FILING DATE: 2001-01-23 ; NUMBER OF SEQ ID NOS: 14 ; SOFTWARE: PatentIn Ver. 2.1 ; SEQ ID NO: 1 ; LENGTH: 1555
Qy	661 TTATTTGGTACTTTATATAGGGTATGGCGCTTGGCACTACGGGATAATATCG 720	Db	; TYPE: DNA ; ORGANISM: Solanum tuberosum
Db	661 TTATTTGGTACTTTATATAGGGTATGGCGCTTGGCACTACGGGATAATATCG 720	Qy	US-10-903-948-1
Qy	721 TATTATAGCAATATCATACTTGTCAATTAAGCAATAATTACAAATATGATT 780	Db	Query Match 100.0%; Score 1595; Best Local Similarity 100.0%; Pred. No. 0; Matches 1595; Mismatches 0; Indels 0; Gaps 0;
Db	721 TATTATAGCAATATCATACTTGTCAATTAAGCAATAATTACAAATATGATT 780	Qy	1 GTAAATGACTCACAATGGCGCTTGGCAACGGCCCTGGCTGATCTTGTGTA 60
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Qy	961 GCGAAAGTTCTGTCGATCATCTATGCCATTTCATGCTGCTTA 1020	Db	121 CAAATGCTGCAACGATTCTACATGGCTGGTACTTAAGTGGCACTGGCTGATCTTGTGTA 180
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Db	481	TTGGGCTCGATCGAGCTGGCACCGCTATCGGTGATGCCAACGATGTA	540	Db	1560	ATGGGGCAAATAAGTCATGGTGAAGTGGTTGCTTC 1598
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Qy	599	AGGGAGAAACAAAGAGATCTCAAGTAGGCCAAGTTGTGAAATTATATGTCGACA	658		Sequence 3 , Application US/10051307	
Db	601	AGGGAGAAACAAAGAGATCTCAAGTAGGCCAAGTTGTGAAATTATATGTCGACA	660		Publication No. US20020170095A1	
Qy	659	AATTATTTGGTACTTTATAGGATATGGATGGGGCTTGGACACTAGGATTAA	718		GENERAL INFORMATION:	
Db	661	AATTATTTGGTACTTTATAGGATATGGATGGGGCTTGGACACTAGGATTAA	720		APPLICANT: DAI, ZIYU	
Qy	719	CGTATTATAGCAATTATCATACGTTGATTAACGAAATAATTACATATGAT	778		APPLICANT: SHI, LIPANG	
Db	721	CGTATTATAGCAATTATCATACGTTGATTAACGAAATAATTACATATGAT	780		APPLICANT: HOOKE, BRIAN S.	
Qy	779	TGGTAAACGTTGAGSTGAAAATGTATAAGCGCTTAATAATTATTTATAA	838		TITLE OF INVENTION: GENE PROMOTERS ISOLATED FROM POTATO AND USE THEREOF	
Db	781	TGGTAAACGTTGAGCTGAAAATGTATAAGCGCTTAATAATTATTTATAA	840		FILE REFERENCE: 059440/01441	
Qy	839	ATATAGCCATAGTACAAGTTAACCTTATTGGTGTAACTTCGATATAACTCTT	898		CURRENT APPLICATION NUMBER: US/10/051,307	
Db	841	ATATAGCCATAGTACAATGATACGTTGATTAACCTTCGATATAACTCTT	900		CURRENT FILING DATE: 2002-01-22	
Qy	899	AACGTTAACGGATTTCCTTAACTAAATTAAAGCGATTTTCG	958		PRIOR APPLICATION NUMBER: 60/263,224	
Db	901	AACGTTAACGGATTTCCTTAACTAAATTAAAGCGATTTCATTTTCG	960		PRIOR FILING DATE: 2001-01-23	
Qy	959	TGGCCAAAGTTCTGCACTTACTTACTTATGCCATTTCATCTGTC	1018		NUMBER OF SEQ ID NOS: 14	
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Qy	1019	TGGTACACGTTGACATAAAATCATAAAATTGAGTAAATTAGTTTTT	1078		SEQ ID NO: 3	
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Qy	1139	TTAAATTCAACCACTTCTGC-AAGGGAACTCTATGTACGTCAGTCAGT	1196		FEATURE:	
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Qy	1197	GATTATCTTAGCTGATGTTGAGTCACACTTGTAGTCGAAATTATTAAGAACCC	1256		LOCATION: (1248)	
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Qy	1257	CCTATTGATGCAAAATCATTCATTAAGAACCCATTCTGCTTATTCAGAT	1316		US-10-051-307-3	
Db	1260	CCTATTGATGCAAAATCATTCATTAAGAACCCATTCTGCTTATTCAGAT	1319		Query Match Score 1362.4; DB 13;	
Qy	1317	CGGAGATGATAATTACTAAATAATTGAAAGTGTCAAGTCATC	1376		Best Local Similarity 94.1%; Pred. No. 2,1e-285;	
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Qy	1377	AAGCTTATCGTCGATCCATTAATACTGTTGCTTGTGTTTACCTCTTAA	1436		Qy 49 ATCTGTGTTGAAAAAATTGGAAAGAACTGTTGGTCGACAAAT 108	
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Db	1440	GGATCATGTTAAATTAGTTAAATATCTCCATATAATCTCTTAA	1499		Db 61 ATGTGTGCTCCAAATGGTTGAGGTTGATCTCCGGTACTTTAACGTGAC 120	
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Qy	1557	ATGGAGGCAAAATAAGTCATGTTGAAAGTGGTTGCTTC 1595			Qy 229 GATTTGTCGGGGCAAGTCATCTGGTAACTGTTGGGTTGCCCCA 288	
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Qy 708 CGGATATTAAATCGTAAATTATAGCAATTATCATACATTTGACTAATTATAACGAAATTAT 767
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Qy 768 TCAATATGATTTGGTAAACGTTGAGGGAAAATGATAGAGCCCTAAATTA 827
 Db 721 TCAATATGATTTGGTAAACGTTGAGGGCAAATCTATAAGCCCTAAATTA 780

Qy 828 TATTATGAAATAGCCCTATAGTTAACGTTAACCTTATTTGGTAACTTGGACAT 887
 Db 781 TATTATGAAATAGCTAACGTTAACCTTATTTGGTAACTTGGACAT 840

Qy 888 ATAAACTCTGTAAACGTGACGGAAATTCTTAAACCTAATTAAAGCAGGTATT 947
 Db 841 ATAAACTCTGTATGTGACGGAACTTCTTAAACCTAATTAAAGCAGGTATT 900

Qy 948 CGGATTTCTGGCCAAAGTTCTGAACTTACATAGCCATTTCACCTTATCG 1007
 Db 901 AATATTTCTGGCCAAAGTTCTGCACTTTATGCCATTTCACCTTATCG 960

Qy 1008 TTCTAGCTTCCTPAGGTAACTGTTGAACTAAATCAAAATTGAACTAAATT 1067
 Db 961 TTCTAGCTTCCTPAGGTAACTGTTGAACTAAATCAAAATTGAACTAAATT 1020

Qy 1068 AGTTTTTTTTCTCATATTACTCTGTAAGGATCATTGTTAGCATCAATCTGAAATTATAACAA 1127
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Qy 1365 CGAACAAAGTCATCAAGGTTATCGTGAATCACATTAAATAACGTTAGTATGGCTGCTTT 1424
 Db 1316 CGAACAGTCATCAAGGTTATCGTGAATCACATTAAATAACGTTAGTATGGCTGCTTT 1375

Qy 1425 AGGAAACAAAGTCGATCTGTTAAATTAAATTCTCTTAAATTATCTATAT 1484
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Qy 1485 ATACCTCTAAACTTAATGCACTTAACAAACAAATTAAACTTGTATCTTAAGAA 1544
 Db 1436 ATACCTCTAAACTTAATGCACTTAACAAACAAATTAAACTTGTATCTTAAGAA 1495

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 Db 601 ATATGGGACAAATTATTTGGTACTTTATAGGATATGGGCTTTGGACATA 660

Qy 708 CGGATATTAAATGTAATTATAGCAATTATCATACTTGTGATTTGAACTAT 767
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RESULT 6
 US-10-903-948-3
 ; Sequence 3, Application US/10903948
 ; Publication No. US200500532A1
 ; GENERAL INFORMATION
 ; APPLICANT: DAI, ZIYU
 ; APPLICANT: SHI, LIFANG
 ; APPLICANT: HOOKER, BRIAN S.

Db 721 TACAATATGATTGTAACGTGAGGTGCAAAATGTAATAGGCCCTAAATTAA 780 CURRENT FILING DATE: 2003-01-14
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 ; PRIORITY FILING DATE: 2002-06-20

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Db 781 TTAATTTATGATATGATAGTAACTAGTTACAGTTAACCTTGTGACTTGTACT 840
 ; PRIORITY APPLICATION NUMBER: 60348792
 ; PRIORITY FILING DATE: 2002-01-14
 ; NUMBER OF SEQ ID NOS: 395
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO: 371
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 888 ATAAACTCTTAACGCTGACGGAAATTTCCTAAACTAATTAAGCAGTATT 947 Query Match 18.4%; Score: 293.4; DB: 17; Length: 510;
 Best Local Similarity 78.5%; Pred. No. 1.6e-53;
 Matches 35; Conservative 0; Mis matches 96; Indels 0; Gaps 0;

Db 841 ATRAACCTGTATCGTACCTGACGGAACATTCTTAAACTAATTAAGCAGTATT 900
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 948 948 B CAGATTTCCTGGCCAAGTTCTGCAACTATCTGCCATTTCATTTGAC 1007
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 901 AATATTTCTGGCCAAGTTCTGCAACTATCTGCCATTTCATTTGAC 960
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1008 TTCTAGCCCTCTGGTAACCTGTTGAACTTAAATTGAAAGTAAATT 1067
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 961 TTCTAGCCCTCTGGTAACCTGTTGAACTTAAATTGAAAGTAAATT 1020
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1068 AGTTTTTTTCATATTAATCTGCTAGGATCATTTGTAGTCAATCTGAAATTATA 1127
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1021 AG---TTTTTTTCATATTAATCTGCTAGGATCATTTGTAGTCAATCTGAAATTATA 1077
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1128 ACCATTCGATTAAATCAACCATCTGCCAAGGGAAAGCTAT--GTCATCCCT 1184
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1078 ATCATTCGATTAAATCAACCATCTGCAACTATCTGCAATGTTGATGGTATTCTGCT 1137
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1185 GACAAGTGGTTGATTATCTTAGCTCTGATTGGGATCTGAGCTTTAGTCGAATAT 1244
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1138 GACAAGTGGTTGATTATCTTAGCTCTGATTGGGATCTGAGCTTTAGTCGAATAT 1197
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1245 ATAAAAGAACCCCTATTGATGCAAAATATCTTATTAAGAACCCCTATTGATGCTTATT 1304
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1198 ATTAAAAGAACCCCTATTGATGCAAAAGTCATAAA--TATTTAAATCATCTCTTATT 1225
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1305 TATTTTACATCGGAGCTGGATGATATTTACTAATTAATAATTGAAAGGATTGT 1364
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1256 TATTTTACATCGGAGCTGGATGATCATTTACTAATTAATAATTGAAAGGATTGT 1315
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1365 CGACAGTCACTCAAGCTTATGTCGATCACATTCCATACGTTAGTGGCTCTTT 1424
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1316 CGACAGTCACTCAAGCTTATGTCGATCACATTCCATACGTTAGTGGCTCTTT 1375
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1425 AGAGAAACAGTGGATCATGTTATAATTGTTAAATATCTCTTATAATATCTATT 1484
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1376 AGAGAAACAGTGGATCATGTTATAATTGTTCTCTTATAATATCTATT 1435
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1485 ATACCTCTAAACTAAATGCTTACACAAATATAACTAGATCTTAAAGAA 1544
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1436 ATACCTCTAAACTAAATGCTTACACAAATATAACTAGATCTTAAAGAA 1495
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Qy 1545 TTGCAAAATTAAATGAGGCAAAATAGTCTATGGTGAAGTTGGTGTCTTC 1595
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

Db 1496 TTGCAAAATTAAATGAGGCAAAATAGTCTATGGTGAAGTTGGTGTCTTC 1546
 ; LENGTH: 510
 ; TYPE: DNA
 ; ORGANISM: Lycopersicon esculentum
 ; US-10-341-961A-371

RESULT 7
 ; Sequence 371, Application US/10341961A
 ; Publication No. US20040006787A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Boyce Thompson Institute for Plant Research, Inc.
 ; APPLICANT: Curagen Corporation
 ; APPLICANT: Crasta, Oswald
 ; APPLICANT: Swizak, Peter
 ; APPLICANT: Mybore, Kiran
 ; APPLICANT: Folkerts, Otto
 ; APPLICANT: Martin, Gregory
 ; APPLICANT: Ekengren, Sophia
 ; TITLE OF INVENTION: PLANT DEFENSE-RELATED GENES REGULATED IN RESPONSE TO PLANT-PATHOGEN
 ; TITLE OF INVENTION: INTERACTIONS AND METHODS OF USE
 ; FILE REFERENCE: BTI-6TA2
 ; CURRENT APPLICATION NUMBER: US/10/341,961A
 ; NUMBER OF SEQ ID NOS: 5379

RESULT 8
 ; Sequence 2118, Application US/09938842A
 ; Patent No. US20020160378A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Harper, Jeff
 ; APPLICANT: Kreps, Joel
 ; APPLICANT: Zhu, Tong
 ; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
 ; FILE REFERENCE: SCRIPT1300-3
 ; CURRENT APPLICATION NUMBER: US/09/938,842A
 ; CURRENT FILING DATE: 2001-08-24
 ; PRIOR APPLICATION NUMBER: US 60/227,866
 ; PRIOR FILING DATE: 2000-08-24
 ; PRIOR APPLICATION NUMBER: US 60/264,647
 ; PRIOR FILING DATE: 2001-01-16
 ; PRIOR APPLICATION NUMBER: US 60/300,111
 ; PRIOR FILING DATE: 2001-06-22
 ; NUMBER OF SEQ ID NOS: 5379

SEQ ID NO: 2118
 LENGTH: 735
 TYPE: DNA
 ORGANISM: *Arabidopsis thaliana*
 US-09-938-842A-2118

Query Match Similarity 12.3%; Score 195.6; DB 9; Length 735;
 Best Local Similarity 62.3%; Pred. No. 3.2e-32; Mismatches 0; Gaps 3;
 Matches 365; Conservative 0; Indels 17; Gaps 3;

Query	Score	Length	DB	Indels	Mismatches	Best Local Similarity	Matches	Conservative	Indels	Gaps
Qy 46	195.6	735	Qy	12.3%	0	62.3%	365	3	17	3
Db 586	99	99	Db	99	0	99	365	3	17	3
Db 527	527	527	Db	527	0	527	365	3	17	3
Qy 100	195.6	735	Qy	195.6	735	12.3%	365	3	17	3
Db 526	99	99	Db	99	0	99	365	3	17	3
Db 467	467	467	Db	467	0	467	365	3	17	3
Qy 160	219	219	Qy	219	219	12.3%	365	3	17	3
Db 466	527	527	Db	527	0	527	365	3	17	3
Db 408	408	408	Db	408	0	408	365	3	17	3
Qy 220	279	279	Qy	279	279	12.3%	365	3	17	3
Db 407	407	407	Db	407	0	407	365	3	17	3
Db 356	356	356	Db	356	0	356	365	3	17	3
Qy 280	339	339	Qy	339	339	12.3%	365	3	17	3
Db 355	296	296	Db	296	0	296	365	3	17	3
Db 399	399	399	Db	399	0	399	365	3	17	3
Qy 295	236	236	Qy	236	236	12.3%	365	3	17	3
Db 400	459	459	Db	459	0	459	365	3	17	3
Db 235	176	176	Db	176	0	176	365	3	17	3
Db 460	519	519	Db	519	0	519	365	3	17	3
Qy 175	118	118	Db	118	0	118	365	3	17	3
Db 520	579	579	Db	579	0	579	365	3	17	3
Db 117	58	58	Db	58	0	58	365	3	17	3
Qy 580	625	625	Qy	625	625	12.3%	365	3	17	3
Db 57	12	12	Db	12	0	12	365	3	17	3

RESULT 9
 US-09-938-842A-2118/C
 Sequence 2118, Application US/0938842A
 Publication No. US2009009476A9

GENERAL INFORMATION:
 APPLICANT: Harper, Jeff
 APPLICANT: Kreps, Joe I
 APPLICANT: Wang, Xun
 APPLICANT: Zhu, Tong

TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
 FILE REFERENCE: SCRIP1300-3
 CURRENT APPLICATION NUMBER: US/09/938,842A
 CURRENT FILING DATE: 2001-08-24
 PRIOR APPLICATION NUMBER: US 60/227,866
 PRIOR FILING DATE: 2000-08-24
 PRIOR APPLICATION NUMBER: US 60/264,647
 PRIOR FILING DATE: 2001-01-16
 PRIOR APPLICATION NUMBER: US 60/300,111
 PRIOR FILING DATE: 2001-06-22
 NUMBER OF SEQ ID NOS: 5379
 SEQ ID NO 2118

RESULT 10
 US-09-770-445-334/C
 Sequence 334, Application US/09770445
 Patent No. US2002023281A1

GENERAL INFORMATION:
 APPLICANT: Gorlach, Jorn
 APPLICANT: An, Yong-Qiang
 APPLICANT: Hamilton, Carol M.
 APPLICANT: Price, Jennifer L.
 APPLICANT: Raines, Tracy M.
 APPLICANT: Yu, Yang
 APPLICANT: Rameka, Joshua G.
 APPLICANT: Page, Amy
 APPLICANT: Matthew, Abraham V.
 APPLICANT: Ledford, Brooke L.
 APPLICANT: Woessner, Jeffrey P.
 APPLICANT: Haas, William David
 APPLICANT: Garcia, Carlos A.
 APPLICANT: Kricher, Maja
 APPLICANT: Slader, Ted
 APPLICANT: Davis, Keith R.
 APPLICANT: Allen, Keith
 APPLICANT: Hoffman, Neil

APPLICANT: Hurban, Patrick
 TITLE OF INVENTION: Expressed Sequences of Arabidopsis thaliana

FILE REFERENCE: 202JUS (PARA-012PRV)

CURRENT APPLICATION NUMBER: US/09/770, 445
 CURRENT FILING DATE: 2001-01-26
 PRIOR APPLICATION NUMBER: US 60/178,472
 PRIOR FILING DATE: 2000-01-27
 NUMBER OF SEQ ID NOS: 999
 SEQ ID NO: 334
 LENGTH: 950
 TYPE: DNA
 ORGANISM: Arabidopsis thaliana

US-09-770-445-334

Query Match 12.3%; Score 195.6; DB 9; Length 950;
 Best Local Similarity 62.3%; Pred. No. 3.6e-32;
 Matches 365; Conservative 0; Mismatches 204; Indels 17; Gaps 3;

Qy 46 GTATCTTGTGAAAAAATTGGAAAAGAACGTAGGACCACTG----GACCTTGGG 99
 Db 594 GGCATCTCTGCTTAAGAATCTTGAGTACTCAGATCGTACATCCTGACCGTTCG 535
 Qy 100 TGCAACAAATTGTRGTCCTCCAATGTGGTACAGGATTTGTTACATCCTCCGGTACTT 159
 Db 534 TACAACTGATTTGGTCTGTGAATACTAGTACACGGTTGTCGATCACCTGGC 475
 Qy 160 TAAGTGAACAGGGATTACCAATTATTTGCCATTGATTGCTGGATTTC 219
 Db 474 TCAACACGTGTTGGACATTGGCTCGTTATGCTGCCTACATAGPATCCGATGGCAAGTTC- 416
 Qy 220 CTCCACTTGGATTAGTGGCTAACTCCTAGGTATGTTAAATCCATGACTAAAGAA 279
 Db 415 -----GAACTAGTGGAAATCTAAGTGTGAACCTGGCTAACTCATGAGTACATGGPATAAATCCATGACTAAAGAA 279
 Db 280 TGTCCCCAGAAATCTAAGTGTGAACCTGGCTAACTGGCTACTCGGCTACGGTGTGTTGGTGC 339
 Qy 363 TATCTGAACTGAACTCTAAGTGTGAATGTTGAACTGGCTAAAGGTACTCAACCAAGTGTGGTGC 304
 Qy 340 GTTGGCCACCCGGTGGACTGGAGACCAACCAATTACACCGTCTGACGACGCCCTC 399
 Db 303 GCTGTCCTCCAGCCAGTCACTGGATCTGCACTCCACCTGCTGCACTGGCCAC 244
 Qy 400 TACCAAGCACCATTGAGTATCATCGTGTGAACTGCTGCACTGGCCAT 459
 Db 243 GACCTGAGGACTCAAGTGTACATGGTCTACCCCAATTCCTGCTGCACTGGCCG 184
 Qy 460 TAGGGCATCTAATGACCCACATTGGCCCGATGCAACGCTGGFAACCGCTTTCGGGCT 519
 Db 183 CGGGACATCTGACCTCCATGGCCAGATGCACTGGCTCACTGGCTGGGCT 126
 Qy 520 CGATGCCGCCAACATGATGGACAGTGTGGTACCTCGATAGTGGCAGGATAAGT 579
 Db 125 TGCGGAGGCCAACACGGTGAACCTACATCTGGCTGATGTCGGCTGTCG 66
 Qy 580 GAAAGTCACAAAAGCAAGGAGGAAAAACAAAAGAGAATGTCAGTGGCCATG 625
 Db 65 GTGGGATGCAAAAGCAAGGAAACCTTAGCAAGTGGAAATGACGACCAAG 20

Query Match 10.8%; Score 173; DB 18; Length 1956;
 Best Local Similarity 59.5%; Pred. No. 4.1e-27;
 Matches 355; Conservative 0; Mismatches 225; Indels 17; Gaps 3;

Qy 45 TGGTATCTTGTGTTGAAAAAATGGAAAAGAACGTAGGACCACTG----TGGACCTGG 98
 Db 1338 TGGCCTCTATCCCTGAGAACCTCTGAGTACTTGTGGCCACACCTCTTGCCTATG 1279
 Qy 99 GTGCACAAATATTGTTGTCCTCAAATGTGGTACAGGATTGTTACATCCTCGGTTACT 158
 Db 1278 GTGCGCCAACTCTGTCCTTAACACAGTGGGGTTGTCATCCCCAGGTGCC 1219
 Qy 159 TTAAGTTGACCGCCATTACCAATTATATTGCGTGCATTGTCGATTTGGCATTTC 218
 Db 1218 CCTATTGGCCCGGCCACTGCCATTGATCATGGCTGCAACTATTGTGAAACCCA 1159
 Qy 219 CCTCCTACTGGATGATGTCGGGCAAGTCATGGTATTAATCCATCAACTAAAGAA 278
 Db 1158 CC-----GTTAGAGGTGTAAGTGTGAACTGTGAACTGGCTACAGGTGTGGTGC 1108
 Qy 279 ATGTCCTGAAATCTAAGTGTGAACTGTGAACTGTGAACTGGCTACAGGTGTGGT 338
 Db 1107 ATGTCGTGAAATCTGGTGTGCCAATTGGTTCAACGGAATTCCGAAGTGTGTGGGA 1048
 Qy 339 GGTTGGCCACCCGGTGCACCTGGGACCAACTACCGTGTGATGCCACGACCT 398
 Db 1047 GGACCCCTGGCTGGCAATTGGGCCCTGGCTGGCGTGGCTGGCGCG 988
 Qy 399 CTACAGGACCATCCAGTGTACATCGTACAGGCCATATACTGCCATCGTACTGTGCC 458
 Db 987 CGGGCGCTGGCATCAAGTGTGCACTGGCCCTGGGCTATGGCACTGGCC 928
 Qy 459 CTAGGGCATCAATGCCACATTGGCCGATGAAACGTGCACTGGCTTGTGGG 518
 Db 927 GGTTTACCCAGGGTTCCAGTGGCCACGGTCAAGTGGCCATGCCAC- CGGGAC 870
 Qy 519 TCGATGCCGCCAACGATGATGGACAGTGTGGTACCTGTGAACTGGCTAGGATAAG 578
 Db 869 TCGCGGCGCCACACGGTGTGGCAATGGTCACTGTGAGTTGAGATGTA 810
 Qy 579 TGAATGTCACAAAGCAAGGAAACCTTAGCAAGTGGCCATG 635
 Db 809 TTGTTGCCCCAAAGGTAAGGCCAACCTTAGCAAGTGGCACTG 753

RESULT 11
 US-10-424-59-36321/c
 Sequence 36321, Application US/10424599
 Publication No. US20040031072A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa Thomas J
 APPLICANT: Kovacic David K
 APPLICANT: Zhou Yihua
 APPLICANT: Cao Yongwei
 TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated With
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21(53223)B

RESULT 12
 US-10-636-396-4/c
 Sequence 4, Application US/10636396
 Publication No. US20040073571A1
 GENERAL INFORMATION:
 APPLICANT: Bidney, Dennis L.
 APPLICANT: Craeta, Oswald R.
 APPLICANT: Duvick, Jon
 APPLICANT: Hu, Xu
 APPLICANT: Lu, Guihua
 TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 Genes and their Uses
 FILE REFERENCE: 5718-90

CURRENT APPLICATION NUMBER: US/10/636,396
 CURRENT FILING DATE: 2003-08-07
 PRIORITY NUMBER: US/09/589,733C
 PRIORITY FILING DATE: 2000-06-08
 PRIORITY APPLICATION NUMBER: 60/140,646
 PRIORITY FILING DATE: 1999-06-23
 PRIORITY APPLICATION NUMBER: 60/162,904
 PRIORITY FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 41
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO: 4
 LENGTH: 875
 TYPE: DNA
 ORGANISM: Helianthus annuus
 us-10-636-396-4

FILE REFERENCE: 5718-90
 CURRENT APPLICATION NUMBER: US/10/636,026
 CURRENT FILING DATE: 2003-08-07
 PRIORITY NUMBER: US/09/589,733C
 PRIORITY FILING DATE: 2000-06-08
 PRIORITY APPLICATION NUMBER: 60/140,646
 PRIORITY FILING DATE: 1999-06-23
 PRIORITY APPLICATION NUMBER: 60/162,904
 PRIORITY FILING DATE: 1999-11-01
 NUMBER OF SEQ ID NOS: 41
 SOFTWARE: FASTSEQ for Windows Version 3.0
 SEQ ID NO: 4
 LENGTH: 875
 TYPE: DNA
 ORGANISM: Helianthus annuus
 us-10-636-026-4

Query Match 10.7%; Score 170.4; DB 18; Length 875;							
Best Local Similarity 59.7%; Pred. No. 1e-26;							
Matches 325; Conservative 0; Mismatches 211; Indels 8; Gaps 2;							
Qy	49	ATCTTGTGAAATTGAAAGAACCTGGACCATGGACCTAGGACCACTGGACCTGGCACAT	108	Qy	49	ATCTTGTGAAATTGAAAGAACCTGGACCATGGACCACTGGACCACTGGCACAT	108
Db	577	ATCTGGCTTGAAACCTTGTAAATCAGTTGTCACAAATTCCAGAATTGACAAAT	518	Db	577	ATCTGGCTTGAAACCTTGTAAATCAGTTGTCACAAATTCCAGAATTGACAAAT	518
Qy	109	ATTTGTCCTCAAATGGTAAAGGTTTACATCCCTGGGTACMTTAAGTTGAC	168	Qy	109	ATTTGTCCTCAAATGGTAAAGGTTTACATCCCTGGGTACMTTAAGTTGAC	168
Db	517	ACTGATGCTTGTGAACTGGTCAAGGGTATTGCCCCGCTAACTAC	458	Qy	517	ACTGATGCTTGTGAACTGGTCAAGGGTATTGCCCCGCTAACTAC	458
Qy	169	CAGGGCATTCACATTATTTGCCGTGCAAGGGTATTCTCCCACTTG	228	Db	517	CAGGGCATTCACCATTTATTTGCCGTGCAAGGGTATTCTCCCACTTG	228
Db	457	CAGGACACTGGCATTGATCGACATACGAGATACCGGGTCACCC-----AT	404	Qy	169	CAGGGCATTCACCATTTATTTGCCGTGCAAGGGTACTCGCTAGGATACCCGGTACCC-----AT	404
Qy	229	GATTAGTGGCGGAAGTGTGAACTTCACTAAAGAATGTCGAGA	288	Qy	229	GATTAGTGGCGGAAGTGTGAACTTCACTAAAGAATGTCGAGA	288
Db	403	TGAATTTGGCTPAACCACTGGCACATTGAAATGTCGAAAGA	344	Db	403	TGAATTTGGCTPAACCACTGGCACATTGAAATGTCGAAAGA	344
Qy	289	AATCTAAGTTGTGAACCTGGTCAAGGCTACTGGTAGGGTGTGGTTGCC	348	Qy	289	AATCTAAGTTGTGAACCTGGTCAAGGCTACTGGTAGGGTGTGGTTGCC	348
Db	343	ATTCAGATTGTGAACTGGTCAAGGGTACCTGGCCTAGGGTGTGGTACAT	284	Db	343	ATTCAGATTGTGAACTGGTCAAGGGTACCTGGCCTAGGGTGTGGTACAT	284
Qy	349	ACCCGGTCACTGGCAGGACCAACCAATACCACTGCAACCCCTACAGCAC	408	Qy	349	ACCCGGTCACTGGCAGGACCAACCAATACCACTGCAACCCCTACAGCAC	408
Db	283	AGTTTGCAATTGGAGAACCTGGTGAATACGGCTGACACCTGCTGCCAGAAC	224	Db	283	AGTTTGCAATTGGAGAACCTGGTGAATACGGCTGACACCTGCTGCCAGAAC	224
Qy	409	CATCGAAGTTACATCCAGTACCACTGCACTGGCCCTAGGGCAT	468	Qy	409	CATCGAAGTTACATCCAGTACCACTGCACTGGCCCTAGGGCAT	468
Db	223	CATCAAAGTTGCAATTGGGGCAATTGGGTCCCTCTGTCACAGTCGACGG	164	Db	223	CATCAAAGTTGCAATTGGGGCAATTGGGTCCCTCTGTCACAGTCGACGG	164
Qy	469	CAATGACCCACATTTGGCCCCATGAAACGTGTCGACCCGGTGTGGTAC	528	Qy	469	CAATGACCCACATTTGGCCCCATGAAACGTGTCGACCCGGTGTGGTAC	528
Db	163	TTAAAGCAGGTTGGACGTTGGCTACCTCGATAGTGGCAGATAAGTGAAGTCAC	106	Db	163	TTAAAGCAGGTTGGACGTTGGCTACCTCGATAGTGGCAGATAAGTGAAGTCAC	106
Qy	529	CCAAACGGTGTGATGGACGTTGGCTACCTCGATAGTGGCAGATAAGTGAAGTCAC	588	Qy	529	CCAAACGGTGTGATGGACGAGTGTGGTGTGGCTACCTCGATAGTGGCAGATAAGTGAAGTCAC	588
Db	105	CCAAACGGTGTGATGGACGTTGCAATAGTGAACAGGGTGTGGTATAGTGAAG	46	Db	105	CCAAACGGTGTGATGGACGAGTGTGGTGTGGTATAGTGAACAGGGTGTGGTATAGTGAAG	46
Qy	599	AAAA 592		Qy	589	AAAA 592	
Db	45	AAAGA 42		Db	45	AAAGA 42	

RESULT 13
 US-10-636-026-4/C
 / Sequence 4, Application US/10636026
 / Publication No. US2004011761A1
 / GENERAL INFORMATION:
 / APPLICANT: Bidney, Dennis L.
 / APPLICANT: Crasta, Osvald R.
 / APPLICANT: Duvick, Jon
 / APPLICANT: Hu, Xu
 / APPLICANT: Lu, Guihua
 / TITLE OF INVENTION: Sunflower Anti-Pathogenic Proteins and
 / TITLE OF INVENTION: Genes and their Uses

RESULT 14
 US-10-424-599-103619/C
 / Sequence 103619, Application US/10424599
 / Publication No. US2004030172A1
 / GENERAL INFORMATION:
 / APPLICANT: La Rosa, Thomas J.
 / APPLICANT: Kovacic, David K.
 / APPLICANT: Zhou Yihua
 / APPLICANT: Cao Yongwei
 / TITLE OF INVENTION: Soy Nucleic Acid Molecules and Other Molecules Associated with
 / TITLE OF INVENTION: Plants and Uses Thereof For Plant Improvement

Page 11

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FILE REFERENCE: 38-21(53223)B
CURRENT APPLICATION NUMBER: US/10/424,599
CURRENT FILING DATE: 2003-04-28
NUMBER OF SEQ ID NOS: 285684
SEQ ID NO: 103619
LENGTH: 909
TYPE: DNA
ORGANISM: Glycine max
FEATURE: OTHER INFORMATION: Clone ID: PAT_MRT3847_64586C.1
US-10-424-599-103619

Query Match Score 167; DB 18; Length 909;
Best Local Similarity 10.5%; Pred. No. 5.7e-26;
Matches 327; Conservative 0; Mismatches 205; Indels 7; Gaps 3;

Query 46 GGTATCTTGTGTTGAAAAAARTGGAAAGAACGTAGGACCATGACCTTGGGTGCAAC 105
Db 631 GGCACCTTGTGTTGAAAGATGGAAATAATAGTGGCCACAGTACCGAAATGGCAAC 572
Query 106 AATATGTTGTCCTCCRAATGTGGTACAAGGATTGTCATCCTCGGTRACTTAAGTT 165
Db 571 AGTACTGGTCGGTTTGAAAGACAGTCGAAGGGTGTGGCAACCTCTTGAAGTCCTAGCT 512
Query 166 GACCAAGGCACTCACCATTATAATTTCGGTGCATTTGAAATTGTCGGCAATTCCCTCCAC 225
Db 511 CACTAGGCACTGTGGTAAATGTCGGAGTCGA -- GCTTATGCCAACGTGATCCAT 455
Query 226 TTGGATTAGTCGGGGAAAGTCATGGTATAATTAAATCCATCACTAAGAAATGTCCTC 285
Db 454 TCG --- AGGTGGACTAAAGTCCATGGCACGTTAAAACCTCGAGGAGGAGTGTGCA 398
Query 286 AGAAATCTAAGTGTGTAAGTGGTCAAGGGGTACTGGTGTGTTGC 345
Db 397 AGAAATGTCAAATTGTCGAACCCGGTCACTGGGTGATTCAGCCAGGGTGTGGAGGCCAC 338
Query 346 CCCACCCGGTGCACTCGGGACACCAACAAATCACCAGTCATGCCAACCTCTAACAG 405
Db 337 CGTAACCTTTCAGTGGGACACCCCGACGTCAGGTCACTCACCGGCCCG 278
Query 406 CACCATGGAAGTTACATCAGCACTAACCTGCACTAGTCAGTGGCCCTTGGCG 465
Db 277 AACCGTGTGAAAGTGCAGCCGTTGGGCCAAACGGGGCCCTTGTGTCAGGCCA 218
Query 466 CATCAATGACCCACATTTGGCCCGATGAAACGTTGGGTG-GATG 524
Db 217 CGTCCACGGACCATGACTGGCCGGTTTAATTCAGCAGGCAACAGGGCACAGCG 158
Query 525 CGGCCCAAAACGATGTGACAGTGTGGTACCTGATAGTGGCAGCATAAAGTGAAA 583
Db 157 CAGGCCAGACGTGTGCACTGTTGTGATTCAACCTGAGCATATGGCAA 99
Query 573 CATAAGTGAAGTCACAAAAGCAAGAAGGGAGA 605
Db 61 CGTGTGCGGGCGCGCGAGAGGAGAAGAGGGA 29

Query Match Score 137.4; DB 15; Length 717;
Best Local Similarity 8.6%; Pred. No. 1.4e-19;
Matches 292; Conservative 0; Mismatches 216; Indels 5; Gaps 2;
Query 98 GGTGGCAACAACTATTTGTGTCCTCCAAATGTCAGGATTGTCATCCTCCGGTAC 157
Db 541 GGTGGCAAGCTACTGCTCTGCTTAAACACCGTGGACCGCTGGACCCGGCGC 482
Query 158 TTAAAGTTGACCAAGGGCATTCACCTTTATATTTCGGGCAATTGTTGTCCTGGC 213
Db 481 CCTCTAGCTGCTGGCACTGCCCCCAGTCCTCCGCAACCCGGCCCTTGGC 422
Query 214 ATTTCCCTCCACTTGGATTAGTCGGGCAAAAGTCATGGTATAAACTCAACTA 273
Db 421 GCACCGGCCCGTGGCAGGTGCAATGGGCCAGTGTGAATCGTCATGTA 362
Query 274 AAGAAATGTCCTCCAGAAATCTAAGTTGTAAGCTGGTCAAGGGCTACTTCGGCTTAAGGTGT 333
Db 361 GGGAGATGTCGAAGAGTCAGGTGCTGAACTGTTACCGCAACTCCCAAGCTGT 302
Query 334 TTGGGGTTGTCGGCCACCCGGTGCACGGTCACTGGTCACTGGCAGC 393
Db 301 TGGGGGGTGTGGCCGAGTCGGCCGGTGTGGCACC 242
Query 394 AACCTCTACAGCACCATCGAACCTGACATCGTACAGGCCATATACCTGCCATCTGTAG 453
Db 241 GCCCTTGTGGCTGGCTGGTCAAGTCAGCCGTCAGTCGGCCACAGGGCTGGCTG 182
Query 454 TGCCCTAGGGCATCAATGACCCCATTTGGCCCGATGAAAGTGGCACCCG-CRT 512
Db 181 TGCCCGCCGGGACCTGATCACCCCATGCTGCTGGCCGGCGCG 122
Query 513 TGGGGTTGATGTCGGCCCAAAAGCATGATGTTGTCGTAACCTCCATAGTGGCAG 572
Db 121 ACGGGACGGTGGCCGCCACAGGTGATCTGGCAGCTTGTGTTGTGGCAACGTGGGG 62
Query 573 CATAAGTGAAGTCACAAAAGCAAGAAGGGAGA 605
Db 61 CGTGTGCGGGCGCGCGAGAGGAGAAGAGGGA 29

RESULT 15
US-10-259-165-389/C
Sequence 389, Application US/10259165

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OM nucleic - nucleic search, using sw mode1

Run on: June 17, 2005, 17:23:59 ; Search time 260.504 Seconds (without alignments)

10018.495 Million cell updates/sec

Title: US-10-051-307-1

Perfect score: 1595

Sequence: 1 gtaatcgtactatagg.....tggtaaagtggttttc 1595

Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents NA.* 1: /cgn2_6/pctodata/1/ina/5A COMB. seq: * 2: /cgn2_6/pctodata/1/ina/5B COMB. seq: * 3: /cgn2_6/pctodata/1/ina/6A COMB. seq: * 4: /cgn2_6/pctodata/1/ina/6B COMB. seq: * 5: /cgn2_6/pctodata/1/ina/PCUTS COMB. seq: * 6: /cgn2_6/pctodata/1/ina/backfles1.seq: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
c 1	479.2	30.0	3033	1	US-08-482-037A-1		Sequence 1, Appli
c 2	430.2	27.0	883	1	US-07-828-798C-4		Sequence 4, Appli
c 3	430.2	27.0	883	2	US-08-315-868A-4		Sequence 4, Appli
c 4	430.2	27.0	883	3	US-08-495-819B-4		Sequence 4, Appli
c 5	430.2	27.0	884	1	US-07-828-798C-5		Sequence 5, Appli
c 6	430.2	27.0	884	2	US-08-315-868A-5		Sequence 5, Appli
c 7	430.2	27.0	884	3	US-08-495-819B-5		Sequence 5, Appli
c 8	170.4	10.7	875	4	US-09-589-733C-5		Sequence 4, Appli
c 9	155.2	9.7	900	1	US-08-181-271A-4		Sequence 4, Appli
c 10	155.2	9.7	900	1	US-08-449-315-4		Sequence 4, Appli
c 11	155.2	9.7	900	1	US-08-444-803-4		Sequence 4, Appli
c 12	155.2	9.7	900	1	US-08-449-043-4		Sequence 4, Appli
c 13	155.2	9.7	900	1	US-08-456-265A-4		Sequence 4, Appli
c 14	155.2	9.7	900	1	US-08-455-116-4		Sequence 4, Appli
c 15	155.2	9.7	900	1	US-08-455-244-4		Sequence 4, Appli
c 16	155.2	9.7	900	1	US-08-454-876-4		Sequence 4, Appli
c 17	155.2	9.7	900	2	US-08-457-364-4		Sequence 4, Appli
c 18	155.2	9.7	900	2	US-08-456-262-4		Sequence 4, Appli
c 19	155.2	9.7	900	2	US-08-456-240-4		Sequence 4, Appli
c 20	155.2	9.7	900	2	US-08-455-736-4		Sequence 4, Appli
c 21	155.2	9.7	900	2	US-08-971-217-4		Sequence 4, Appli
c 22	155.2	9.7	900	3	US-09-350-600-4		Sequence 4, Appli
c 23	155.2	9.7	900	4	US-09-906-234-4		Sequence 4, Appli
c 24	149	9.3	910	4	US-09-685-292-1		Sequence 1, Appli
c 25	106.4	6.7	894	1	US-08-178-708-7		Sequence 7, Appli
c 26	106.4	6.7	894	1	US-08-457-552-7		Sequence 7, Appli
c 27	106.4	6.7	894	1	US-08-456-430-7		Sequence 7, Appli

RESULT 1
US-08-482-037A-1/c
; Sequence 1, Application US/08482037A
; Patent No. 5801088

GENERAL INFORMATION:
APPLICANT: Ray Bressan and Paul M. Hassegawa
TITLE OF INVENTION: Osmotin Gene Promoter and Use Thereof
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: Thomas Q. Henry
STREET: Bank One Tower, Suite 3700, 111 Monument Circle
CITY: Indianapolis
STATE: Indiana
COUNTRY: USA
ZIP: 46204-5137
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.4 Mb storage
COMPUTER: COMPAQ
OPERATING SYSTEM: MSDOS
SOFTWARE: ASCII
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/482-037A
FILING DATE: June 7, 1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/476,243
FILING DATE: June 7, 1995
CLASSIFICATION: 435
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/180,428
FILING DATE: January 12, 1994
APPLICATION NUMBER: 08/065,147
FILING DATE: May 20, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Thomas Q. Henry
REGISTRATION NUMBER: 28,309
REFERENCE/DOCKET NUMBER: 7024-8/PUR16C1PBDIVII
TELECOMMUNICATION INFORMATION:
TELEPHONE: (317) 634-3456
TELEFAX: (317) 637-7561
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3033 bases
TYPE: Nucleotide/Amino Acid
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE: Genomic DNA
US-08-482-037A-1
Query Match 30.0%; Score 479.2; DB 1; Length 3033;

Best Local Similarity 76.9%; Pred. No. 1.4e-107; Indels 41; Gaps 6; Matches 678; Conservative 0; Mismatches 163; /

Qy 46 GGTATCTTGTGAAATAATTGAAAGAACTAGAAACACATGGACCTGGTGCAC 105
Db 2622 GGCATCTTGTGAAATAATTGAAAGAACTAGAAACACATGGACCTGGTGCAC 2563

Qy 106 AATATTGTTGCTCCAAATGTTGTAACAGGTTGATCTCCGGTACTTTAAGTT 165
Db 2552 AATATTGTTGCTCCGGTACTAGGTTTAACTCTCCGGAAACCTTAAGTT 2503

Qy 166 GACAGGGCATCACCATTTATATTGCGTCATGATGTCGCAATTCCCTCAC 225
Db 2502 CGGGGACATTCGCCCTTATATTGCCGACAAATGATCCATGGCTCAC 2443

Qy 226 TTGGATTAAGTCGGGAAAGTCATCGGATATTAAATCCATCAAATAAGAAATTCGCC 285
Db 2442 TAGGTTAGTCGGGCAAAAGTCATCGGAAATTGTAATCCATCAAATAAGAAATTCGCC 2383

Qy 286 AGAAATCTAAGTGTGTAAGCTGTCAGGCTACIGCTAGGGCTTGTGCTTGC 345
Db 2382 AGAAATCTAAACACTGATTTGCTCAAGGCTATTGCTCCAAAGGCTTGTGCTTGC 2323

Qy 346 CCCACCCGGTGCAGTCAGGACCCATACCTCGCAATGCAACCTCTAACAG 405
Db 2322 CCCACCCGGTGCAGTCAGGACCTCCACAGTACCGGTTGGCACGTACCCPACAG 2263

Qy 406 CACCATCGAAGTTACATCGTAGCAACCCATACTCGCAATGCACTGGGG 465
Db 2262 CACCATCGAAGTTACATCGTAGCAACCCATACTCGCAATTTAGTACTCTCGTGGC 2203

Qy 466 CATCAATGACCACATTTGCCCGATGAAACGTCGG-CACCCGGTTCTCGGGTGTGATG 524
Db 2222 CATTGATACCCAGTTGGCTCTGATGAGGCCGCCCCATGGCTGTGAGC 2143

Qy 525 CGCCCCAACGATGTGATGACAGTTGGCTTACCTCGATAGTGGCGCATAAAG 584
Db 2142 CCCCCCAACCGTGTGACAGTTGGCGCATAGTGGCGCATAAAGTATAAG 2083

Qy 585 TCACAAAGCAGAAGGAGAAACAAAGAGATCTAGGCCATGTTGTGAA 644
Db 2082 TCACCAAGGCAAGGAGAAACAAAGAGATCTAGGCCATGTTGTGCA 2023

Qy 645 TTTATATGGACAAATTATTTGGCTAT-----TTATATATGG 685
Db 2022 TTTTTTAACTAAGTGGTGGTGGATATAGTGGTTGTTATATGG 1963

Qy 686 GATATGGGGCTTGGCACTACGGATAATTATCGTATTTATGGCAATACATTG 745
Db 1962 GGAATGGGGCTTTCGAACTATGGATTTACATGGATAATTCACATTG 1908

Qy 746 ACTAAATTAAACGAAATAATTACAAATGTTAAAGTTGAGGTGG-AAAATG 804
Db 1907 ACTA--ATTAAACGGATATATCTCAAGGATGTTGGCAAAAGTGGAGCGCTTAA 1851

Qy 805 TATAAGACCCGGCTTAATAATTAAATTATGAAATAGCCTATAGTACAGTTAATCT 864
Db 1850 CATAAGACCCGGCTTAATAATTAAATTATGAAATAGCCTATAGTACAGTTAATCT 1803

Qy 865 TTATTGGTGTGAACTTGTACATATAACTCTGTAACTGTGAC 906
Db 1802 TTATTGGTGTAAATAACGTGACCTATACTCTGTAACTGTGAC 1761

APPLICANT: Sela-Buurlage, Marianne B.
APPLICANT: Van Den Elzen, Petrus J. M.
TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
NUMBER OF SEQUENCES: 7
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ladas & Parry
STREET: 26 West 61st Street
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 KB storage
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/828,798C
FILING DATE: 06-APR-1992
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: PCT/NL91/00089
FILING DATE: 31-05-91
ATTORNEY/AGENT INFORMATION:
NAME: Mass, Clifford J.
REGISTRATION NUMBER: 30086
REFERENCE/DOCKET NUMBER: U-8622-6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
TELEX: 233288
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 883
TYPE: Nucleotide
STRANDEDNESS: Double
TOPOLOGY: Linear
MOLECULE TYPE: cDNA
ORIGINAL SOURCE:
ORGANISM: Nicotiana tabacum
US-07-828-798C-4

Query Match 27 0%; Score 430.2; DB 1; Length 883;
Best Local Similarity 84.1%; Pred. No. 9.2e-96;
Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;

Qy 46 GGTATCTTGTGTTGAAATAATTGGAAAGAACGTTGAGGCCATGACACTGGTGCAC 105
Db 605 GGCACTTGTCTCCAAATGTTGAAAGGATTGTTACCTCTGGGTACTTAAGTT 165
Qy 106 AATATGGTGTGCTCCAAATGTTGAAAGGATTGTTACCTCTGGGTACTTAAGTT 546
Db 545 AATATGGTGTGCTCCGAATGTTGAAAGGTTACATCTGGGAACCTTAAGTT 486
Qy 166 GACCGGGCTTCAACATTATATTGGCTGGCATGAAATGTTGAGCTTCCTCAC 225
Db 485 CGCGGGACATTCGGGTATATAGCCGTACATGAAATGCTGGTGTGTTAC 426
Qy 226 TTGGTATTAGTGGCGAAAGTCATGGTATATTAAATCCATCAACTAAAGAAATGTCCC 285
Db 425 TAGGCTTGTAGTGGGGAAAGTCATGGTATATTAAATCCATCAACTAAAGAAATGTCCC 366

Qy 286 AGAAATCTAACTGTTGAACTGGTCAAGGGTAACTGGTGTGTTGTTGTTGC 345
Db 365 AGAAATCTAAACCTGAAATGTTGCAAAAGGTATCAGGAAAGTGTGTTAC 306

Qy 346 CCCACCOGETGCACTGCAAGCACACCAAACTGCAACTGCAAGCTCTACAG 405
Db 305 CCCACCGGGTGTGCACTGACTGACTGACTGACCTACACGTTGCAAGTGTGTTAC 246

Qy 406 CACCATCGAAGTTACATCCAGGACATATGCACTTGTGCTTGTGCTTGTGCGC 465

RESULT 2
US-07-828-798C-4/C
; Sequence 4, Application US/07/828,798C
; GENERAL INFORMATION:
; APPLICANT: Woloshuk, Charles P.
; APPLICANT: Melcher, Leo S.
; APPLICANT: Cornelissen, Bernardus J. C.
; APPLICANT: Meulenhoff, Elisabeth J. S.

CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/315,868
 FILING DATE: 30-SEPT-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-92
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass. Clifford J.
 REGISTRATION NUMBER: 20086
 REFERENCE/DOCKET NUMBER: U-010255-1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 883
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-495-519B-4

Query Match 27.0%; Score 430.2; DB 3; Length 883;
 Best Local Similarity 84.1%; Pred. No. 9.2e-36;
 Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;

Qy 46 GGTATCTTGTGAAATGGAAAAGCTGAGTACCAACATGGACTCTGGTCAC 105
 Db 605 GGCATCTTGTGAAATGGAAAAGCTGAGTACCAACATGGACTCTGGTCAC 546

Qy 106 AATATTGTTGTCCTCCAATGGTACAGGATTGTTACATCCTCCGGTACTTAAGTT 165
 Db 545 AATATTGTTGTCCTCCAATGGTACAGGATTGTTACATCCTCCGGTACTTAAGTT 486

Qy 166 GACCAAGGCAATTCCACATTATTATTGCGTGCATTGAAATGGCGATTCCCTCCAC 225
 Db 485 CGGGGACATTGCCCTTATTATGCCGTACAAATGAAATTGCAATGCCATTCCCTCAC 426

Qy 226 TTGGATTTGCTGGGCCAAAGTCATCGTATTAAATCCATCAAAATGTCCC 285
 Db 425 TAGGGTTAATGCTGGGCCAAAGTCATGGAAATGTGAAATCTCC 366

Qy 286 AGAAATCTAAGTTGTTGAACTGGTCAAGGGTAACTGGTAACTGGTTGTTGC 345
 Db 365 AGAAATCTAACCACTGTTGCTAAAGCTTATTCAGGCTTGGTGTGTTAC 306

Qy 346 CCCACCCGGTGCATGGACCAACATCCAGTCATGCAAGAACCTTACAG 405
 Db 305 CCCACCCGGTGCATGGACCAACATCCAGTCATGCAAGAACCTTACAG 246

Qy 406 CACCATCGAAGTACATCGTACAGGACCCATAACCTGCATCGTAGTGCCTCTAGGG 465
 Db 245 CAGGATTCAGGTTACATGGCCCATAGTACGGCCCATAGTACCTCGTGGCG 186

Qy 466 CATCAATGCCACCATGGCCCGATGAAACGTGCG-CAACCGCTTTCGGGTGATG 524
 Db 185 CATTGATACCAAGTGGCTGATGAGGCCCTAGGCTTGGCTGTAAGCG 126

Qy 525 CGGCCAAACGATGTTGACAGTTGCTGATCCATGCAAGTGAAG 584
 Db 125 CGCCCAAAACGGTACGACACTGGTCAAGTGAAGTCAAGTGTGCGCATAG 66

Qy 585 TCACAAAGGCAAGGGAGAAACAAAGAGATCTCAAGTAGCCATGT 635
 Db 65 TCACCAAGGCAAGGGAGAAACAAAGAGATCTCAAGTAGCCATGT 15

Query Match 27.0%; Score 430.2; DB 1; Length 884;
 Best Local Similarity 84.1%; Pred. No. 9.2e-96;
 Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;

Qy 46 GGTATCTTGTGAAATGGAAAAGCTGAGTACCAACATGGACTCTGGTCAC 105
 Db 605 GGCATCTTGTGAAATGGAAAAGCTGAGTACCAACATGGACTCTGGTCAC 546

Qy 106 AATATTGTTGTCCTCCAATGGTACAGGATTGTTACATCCTCCGGTACTTAAGTT 165
 Db 545 AATATTGTTGTCCTCCAATGGTACAGGATTGTTACATCCTCCGGTACTTAAGTT 486

Qy 166 GACCAAGGCAATTCCACATTATTGCGTGCATTGAAATGGCGATTCCCTCCAC 225
 Db 485 CGGGGACATTGCCCTTATTATGCCGTACAAATGAAATGTGCAAGTCC 426

Qy 226 TTGGATTAGTCGGGCCAAAGTCATGGTATATTAAATCCATCAAAATGTCCC 285
 Db 425 TAGGGTTAATGCTGGGCCAAAGTCATGGAAATGTGAAATCTCC 366

Qy 286 AGAAATCTAAGTTGTTGAACTGGTCAAGGGTAACTGGTAACTGGTTGTTGC 345
 Db 365 AGAAATCTAACCACTGTTGCTAAAGCTTATTCAGGCTTGGTGTGTTAC 306

Qy 346 CCCACCCGGTGCATGGACCAACATCCAGTCATGCAAGAACCTTACAG 405
 Db 305 CCCACCCGGTGCATGGACCAACATCCAGTCATGCAAGAACCTTACAG 246

Qy 406 CACCATCGAAGTACATCGTACAGGACCCATAACCTGCATCGTAGTGCCTCTAGGG 465
 Db 245 CAGGATTCAGGTTACATGGCCCATAGTACGGCCCATAGTACCTCGTGGCG 186

Qy 466 CATCAATGCCACCATGGCCCGATGAAACGTGCG-CAACCGCTTTCGGGTGATG 524
 Db 185 CATTGATACCAAGTGGCTGATGAGGCCCTAGGCTTGGCTGTAAGCG 126

Qy 525 CGGCCAAACGATGTTGACAGTTGCTGATCCATGCAAGTGAAG 584
 Db 125 CGCCCAAAACGGTACGACACTGGTCAAGTGAAGTCAAGTGTGCGCATAG 66

Qy 585 TCACAAAGGCAAGGGAGAAACAAAGAGATCTCAAGTAGCCATGT 635
 Db 65 TCACCAAGGCAAGGGAGAAACAAAGAGATCTCAAGTAGCCATGT 15

Query Match 27.0%; Score 430.2; DB 1; Length 884;
 Best Local Similarity 84.1%; Pred. No. 9.2e-96;
 Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;

Qy 46 GGTATCTTGTGAAATGGAAAAGCTGAGTACCAACATGGACTCTGGTCAC 105
 Db 605 GGCATCTTGTGAAATGGAAAAGCTGAGTACCAACATGGACTCTGGTCAC 546

Qy 106 AATATTGTTGTCCTCCAATGGTACAGGATTGTTACATCCTCCGGTACTTAAGTT 165
 Db 545 AATATTGTTGTCCTCCAATGGTACAGGATTGTTACATCCTCCGGTACTTAAGTT 486

Qy 166 GACCAAGGCAATTCCACATTATTGCGTGCATTGAAATGGCGATTCCCTCCAC 225
 Db 485 CGGGGACATTGCCCTTATTATGCCGTACAAATGAAATGTGCAAGTCC 426

286 AGAAATCTAAGTGTGAACTGGTCCAAAGGGTACTCGGTAGGGTGTGGTTC 345
 Qy 365 AGAAATCTAAGCTGTGAACTGGTCCAAAGGGTACTCGGTAGGGTGTGGTTC 306
 Db 346 CCCACCGGTTGCACTGGTCACTGGACACCAACATGGTCAAGTGTGGTTC 405
 Qy 305 CCCACCGGTTGCACTGGTCACTGGACACCAACATGGTCAAGTGTGGTTC 246
 Db 406 CACCATGAACTGTTACCTCGCATCGTCACTGGTGTGGTGTGGTGTGGG 465
 Qy 245 CACCATGAACTGTTACCTCGCATCGTCACTGGTGTGGTGTGGG 186
 Db 466 CACCATGAACTGTTACCTCGCATCGTCACTGGTGTGGTGTGGG 524
 Qy 185 CATTGATCACCCAAAGTTGGCTCATCGGACCGCCATCGAAACGTTCG 126
 Db 525 CGGCCAAACGATGATGGCAAGTGTGGTGTGGTGTGGTGTGGTGTGGG 584
 Qy 125 CGGCCAAACGATGATGGCAAGTGTGGTGTGGTGTGGTGTGGTGTGGG 66
 Db 585 TCACAAAGGCAAGAGGGAGAAAAGAGAGATCTCAAGTAGCCATGT 635
 Qy 65 TCACCAAGGCAAGAGGGAGAAAAGAGAGATCTCAAGTAGCCATGT 15

RESULT 6
 US-08-315-868A-5/C
 Sequence 5, Application US/08315868A
 Patent No. 5856151
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Selja-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/315, 868A
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828, 798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass Clifford J.
 REGISTRATION NUMBER: 3:0086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (112) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884

TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-315-868A-5

Query Match 27.0%; Score 430.2%; DB 2; Length 884;
 Best Local Similarity 84.1%; Pred. No. 9.2e-96;
 Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;

Qy 46 GGTATCTTGTGTTGAAAAAATTGGTAAAGAACGTAGGACCATGACCTTGGTGTGGTCAAC 105
 Db 605 GGCTATCTTGTGTTGAAAAAATTGGTAAAGAACGTAGGACCATGACCTTGGTGTGGTCAAC 546
 Qy 106 AATATGTTGTTGCTCCAAATGTGGTACAGGATGTTGATCCTCGGTACTTTAAGTT 165
 Db 545 AATATGTTGTTGCTCCAAATGTGGTACAGGATGTTGATCCTCGGTACTTTAAGTT 486
 Qy 166 GACCAAGGGATTCACCAATTATATTGGCTGTGATGAAATTGGTGGCATTTCCTCCAC 225
 Db 485 CGCGGGACATTGGCTTTATATTAGCGTACATGAAATTGATGGCATTTCCAC 426
 Qy 226 TTGGGTTAATCGGGCGAAAGTCATCGTGTATTAATCCATCAACTAAAGATGTCAC 285
 Db 425 TAGGTTAGTGGGGCGAAAGTCATCGGATGTTGAAATCCATCAACTAAAGATGTCAC 366
 Qy 286 AGAAATCTAGTTGGTGAAGCTGGTCAAGGGTACTCGGTAGGGTGTGGTTGG 345
 Db 365 AGAAATCTAACCATGTAATGGTCAAGGGTATTCGCAAGGTGTTGGTTAAC 306
 Qy 346 CCCACCGGTTGCACTGGCAAGGACACCCAAATCAACCGTACATGGACACTTACACAG 405
 Db 305 CCCACCGGTTGCACTGGTCACTGGACTCCACCAAGTCCAGTCCACCTACCC 246
 Qy 406 CACCATGGAAGTTACATCCAGTAGGACCCATATACTGCTCATGTCAGTCCCTAGGG 465
 Db 245 CACCATGGAAGTTACATCCAGTAGGACCCATATACTGCTCATGTCAGTCCCTAGGG 186
 Qy 466 CATCATGACCCACATTGGCCCGATCGAAACGTTGGGCTTGGGTGATG 524
 Db 185 CATCATGACCCACATTGGCCCGATCGAAACGTTGGGCTTGGGTGATG 126
 Qy 525 CGGCCAAACGATGATGGCAAGTGTGGTGTGGTGTGGTGTGGG 584
 Db 125 CGGCCAAACGATGATGGCAAGTGTGGTGTGGGACATAAGTGGAAAG 66

RESULT 7
 US-08-495-819B-5/C
 Sequence 5, Application US/08495819B
 Patent No. 6087161
 GENERAL INFORMATION:
 APPLICANT: Woloshuk, Charles P.
 APPLICANT: Melchers, Leo S.
 APPLICANT: Cornelissen, Bernardus J. C.
 APPLICANT: Meulenhoff, Elisabeth J. S.
 APPLICANT: Selja-Buurlage, Marianne B.
 APPLICANT: Van Den Elzen, Petrus J. M.
 TITLE OF INVENTION: Antifungal Preparations, Process for Making Such Preparations, Process for Obtaining Plants with Decreased Susceptibility to Fungi
 NUMBER OF SEQUENCES: 7
 CORRESPONDENCE ADDRESS:
 ADDRESSSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York
 COUNTRY: USA
 ZIP: 10023

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/315, 868A
 FILING DATE: 09-SEP-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828, 798
 FILING DATE: 06-APR-1992
 APPLICATION NUMBER: PCT/NL91/00089
 FILING DATE: 31-05-91
 ATTORNEY/AGENT INFORMATION:
 NAME: Mass Clifford J.
 REGISTRATION NUMBER: 3:0086
 REFERENCE/DOCKET NUMBER: U-8622-6
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (112) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884

ADDRESSSEE: Ladas & Parry
 STREET: 26 West 61st Street
 CITY: New York
 STATE: New York

COUNTRY: USA
 ZIP: 10023
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
 COMPUTER: IBM PC/XT/AT or compatibles
 OPERATING SYSTEM: DOS
 SOFTWARE: Word Perfect 5.1
 CURRENT APPLICATION ON DATA:
 APPLICATION NUMBER: US/08/495,819B
 FILING DATE: 31-MAY-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/315,868
 FILING DATE: 30-OCT-94
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/828,798
 FILING DATE: 06-APR-92
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/NL91/00089
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 708-1800
 TELEFAX: (212) 246-8959
 TELEX: 233288
 INFORMATION FOR SEQ ID NO: 5:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 884
 TYPE: Nucleotide
 STRANDEDNESS: Double
 TOPOLOGY: Linear
 MOLECULE TYPE: cDNA
 ORIGINAL SOURCE:
 ORGANISM: Nicotiana tabacum
 US-08-495-819B-5

Query Match Score 430.2; DB 3; Length 884;

Best Local Similarity 84.1%; Pred. No. 9.2e-96; Matches 497; Conservative 0; Mismatches 93; Indels 1; Gaps 1;

Qy 4 6 GGTATCTTGTGTAAGAAAATGGAAAGAACGTAGCAACCATGGACCTTGGGTCAAC 105

Db 605 GCATCTTGTGTAAGAAAATGGAAAGAACGTAGCAACCATGGACCTTGGGTCAAC 546

Qy 106 AAATATGTTGTCCTCCAAATGGTGTACAGGATTGTTACATCCTCGGTACTTTAAGTT 165

Db 545 AAATATGTTGTCCTCCAAATGGTGTACAGGATTGTTACATCCTCGGTACTTTAAGTT 486

Qy 226 TTGGATTGTCGGCCAAAGTCATCGTATPATAAATCCAACTAAGAAATSTCCC 285

Db 425 TAGGTGTAGTCGGCCAAAGTCATCGTATPATAAATCCAACTAAGAAATGTCCC 366

Qy 286 AGAAATCTAAGTGTGTAACCTGGTCAAGGGTACTCGGTAGGGTTGGTGGTTGC 345

Db 365 AGAAATCTAAGCTGTAATGGTCAAGGTATTAGCTTGGGTACCCCTAACAC 306

Qy 346 CCACCGGTGACTGGTCAAGAACCATCACCATGGTCAAGGTACTCGGTAGGG 405

Db 305 CCACCCGGTGTGACTGGTCAAGGTATTAGCTTGGGTACCCCTAACAC 246

Qy 406 CACCATGCAAGTACATCGTCAAGGCCATACCGTCAAGGTACTCGGTAGGG 465

Db 245 CAGCATGAAGTACATGTGCAAGTGTGCAAGGTACTCGGTAGGG 186

Qy 466 CATCAATGACCCACATTTGGCCCGATGAAACAGTGG -CACCCGGTTCTGGGTGATG 524

Db 163 TAAAGACGAGGTGGCTGAGTTAAGTGTGCAAC -CAGGACCCGCAAC 106

RESULT 8
 US-09-589-733C-4/c
 ; Sequence 4, Application US/09589733C
 ; Patent No. 6677503
 ; GENERAL INFORMATION:
 ; APPLICANT: Bidney, Dennis L.
 ; APPLICANT: Crasta, Oswald R.
 ; APPLICANT: Duvick, Jon
 ; APPLICANT: Hu, Xu
 ; APPLICANT: Lu, Guihua
 ; TITLE OF INVENTION: Sunflower Anti-pathogenic Proteins and
 ; Genes and their Uses
 ; FILE REFERENCE: 5718-90
 ; CURRENT APPLICATION NUMBER: US/09/589,733C
 ; CURRENT FILING DATE: 2000-06-08
 ; PRIOR APPLICATION NUMBER: 60/140,646
 ; PRIOR FILING DATE: 1999-06-23
 ; PRIOR APPLICATION NUMBER: 60/162,904
 ; PRIOR FILING DATE: 1999-11-01
 ; NUMBER OF SEQ ID NOS: 41
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO: 4
 ; LENGTH: 875
 ; TYPE: DNA
 ; ORGANISM: Helianthus annuus
 US-09-589-733C-4

Query Match Score 10.7%; Score 170.4%; DB 4; Length 875;
 Best Local Similarity 59.7%; Pred. No. 5e-32; Matches 325; Conservative 0; Mismatches 211; Indels 8; Gaps 2;

Qy 49 ATCTTGTGTAAGAAAATGGAAAGAACGTAGGACCATGGACCTTGGGTCAACAT 108
 Db 577 ATCTGTCTCNAANACCTGTATAATCAGTTGGTCCACATTTCAGAGTTGCACAT 518

Qy 109 ATCTTGTCTCNAANACCTGTATAATCAGTTGGTCCACATTTCAGAGTTGCACAT 518
 Db 517 ACTGATCAGTTGTACCGTGTGAAAGGTATGGTACCCGGTACATGGTACCCGAG 458

Qy 169 CAGGGATTCAACATTATTTGGTGTGATTGATTGTGATTTCCTCCACCTTG 228
 Db 457 CAGGAGCTGCCCATTGATCTCGGTAGTACATGGATACCCGGTACCCGAG 404

Qy 229 GATTAGTGGGGAAAGTCATGGTATAATTAATCCATACAAAGAAATGTCCAGA 288
 Db 403 TGAATTTGGCTTAAACACCCATGGTCAACAGAAATGTAAAGA 344

Qy 289 AATCTAAGTGTGACTGGTCAAGGGTACTCGGTAGGGTTGGTGGTCCC 348
 Db 343 AATCAAGATGTTGACTGGTCAAGGTACTCGCCAAATGTGTGGGGPACCAT 284

Qy 349 ACCGGTGGCACTGGCAACGCCATACCGTCAACATGCCAACCTACAGCAC 408
 Db 283 AGTTTGGCTTGGAGGAGCCGTTCAACCTGCTGCGCCAGAAC 224

Qy 409 CATGGAGTACATCGTCAAGGCCATACCGTCAACATGCCAACCTACAGCAC 468
 Db 223 CATTCAAGTGGCTTGGGGCATACGGGCTTCCGGCTGCTGGCTGCGCCAGGG 164

Qy 469 CAATGACCCACATTTGGCCCGATGAAACAGTGG -CACCCGGTTCTGGGTGATG 528

Qy 529 CCAAACGATGATGGACAGTGGTGTGCGTACCTCGATAGTGGCACATAAGTGAAGTCA 588
 Db 105 CCAAACGGTGTATGGACAGTGGTGTGAAATAGTGAACGGTGTGAAATAGTGA 46

Qy 589 AAAA 592
 Db 45 AAGA 42

RESULT 9
 US-08-181-271A-4/c
 Sequence 4, Application US/08181271A
 Patent No. 5614305

GENERAL INFORMATION:
 APPLICANT: Royals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Meins, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean-Marc
 APPLICANT: Payne, George B.
 APPLICANT: Sperison, Christoph
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Uunes, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Sherica C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 NUMBER OF SEQUENCES: DNA SEQUENCES AND USES THEREOF
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 ZIP: 10532

COMPUTER READABLE FORM:
 COMPUTER: IBM PC compatible
 COMPUTER TYPE: Floppy disk
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/181,271A
 FILING DATE: 13-JAN-94
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/305,566
 FILING DATE: 6-FEB-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165,667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678,378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/181,271A
 FILING DATE: 13-JAN-94
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/305,566
 FILING DATE: 6-FEB-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165,667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632,441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/368,672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329,018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045,957
 FILING DATE: 12-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Elmer, James Scott
 REGISTRATION NUMBER: S-36,129
 REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (919)541-8614
 TELEFAX: (919)541-8689
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 900 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-181-271A-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
 Best Local Similarity 60.5%; Pred. No. 2.7e-28;
 Matches 334; Conservative 0; Mis matches 198; Indels 20; Gaps 4;

Qy 46 GGTATCTTGTTGAAATGGAAAGAACGTAGGACACAT----GGACCTTGGG 99
 Db 607 GGCACTTTCCTTAAATCTGAAATCGAACATCGAGGCCACATGATCCGGCCATTG 548

Qy 100 TGCAACAATATTGTTGTCCTCCAAATGGTGTACAGGATTGTTACATCTCGGGTACTT 159
 Db 547 TACACRAATATTGTTACAGTGGTTTATACAGTACATGGTTGTTACATGGTTGTT 488

Qy 160 TAAGTGACCAAGGCAATTGACATTATTTGCGGTGATTTGTTGCAAGGTTTCC 219
 Db 487 TCAACTGTTGTTGGGATTTCGTTAAATGGTGTGATCTGAGATTACGACAT---- 432

Qy 220 CTCCACTTGATTGTCGGCGAAAGTCACTGGTATATAATCATGACTAAAGAAA 279
 Db 431 ----CCCTCCATTGTCGGCTGAAATGGTGTGAAATGGGATGTTAACATGACAGAGAGA 377

Qy 280 TGTCACGAAATTCAGTGGTGAACCTGCGTCAAGGCPACTCGCTAAAGTGTAGTGT 339
 Db 376 TGTCACGAAATTCAGTGGTGAACCTGCGTCAAGGCPACTCGCTAAAGTGTAGTGT 320

Qy 340 GTTTGGCCACCCGGTGCAGGACACCAATCACCAGTCATGCAAGGCTC 399
 Db 319 CTTTCCATAGCCATTGACATTCACATCCGGTACAGTCCTCAAAATTACCTC 260

Qy 400 TACCGCACCACATCGAAAGTGTACAGTGGCCATATACCTGGCCATCTGAGTGGCCC 459
 Db 259 GGCCCTGCGCATCGAAAGTGGTGTGAAATGGTGTGACGCCAAATGCGAGCTGTCCR 200

Qy 460 TAGGGCCTAAATGCCACATGGCCCGATCAAAGCTGGGACCCGCTTGGGT 319
 Db 199 GGTRACATTAATGTCCTAGATGGCTGAATGGCCCTGCTCAGTGGCTCAGCT 142

Qy 520 CGATCCGCCAAAGGATGTATGGCAGCTGTTGGTACCTCGATAGTGGCAGCTAAGT 579

Db 141 GCGCGGCCGCGACTGTTGCAATGTCGAAATGGCAGCTGAGT 82
 Qy 580 GAAAGTCACAA 591
 Db 81 AACAGTCACAA 70

RESULT 10
 US-08-449-315-4/C
 Sequence 4, Application US/08449315
 Patent No. 5610505
 GENERAL INFORMATION:
 APPLICANT: Rivals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Meins, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean-Marc
 APPLICANT: Payne, George B.
 APPLICANT: Sperison, Christoph
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Uunes, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Shericca C.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 TITLE OF SEQUENCES: DNA SEQUENCES AND USES THEREOF
 NUMBER OF SEQUENCES: 106
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-SPIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10532

COMPUTER READABLE FORM:
 COMPUTER TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/449,315
 FILING DATE: 24-MAY-1995
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 0/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 0/7/678,378
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 0/7/305,566
 FILING DATE: 6-FEB-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 0/7/165,667
 FILING DATE: 9-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 0/8/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 0/7/632,441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT 1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/368,672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329,018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045,957
 FILING DATE: 12-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Elmer, James Scott
 REGISTRATION NUMBER: 36,129
 REFERENCE/DOCKET NUMBER: S-198825/P1/CGC 1727
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (911)541-8614
 TELEFAX: (911)541-8639
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 900 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-449-315-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
 Best Local Similarity 60.5%; Pred. No. 2.7e-28;
 Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

46 GGTATCTTGTGGAAATAATTGGAAAGAACGTGGGACCAT-----GGACCTGGG 99
 607 GGCATCTTCTAAAAAATCTGCAAATCTGGCCACATATCGGGCATTTG 548

Qy 100 TGCACACATATGTTCTCCTCAATTGTTGTTACAGGATGTTGATTCATCTCCGGTACTT 159
 Db 547 TACAACTAATTCTATGGTTTTATCACAGTACATGGTTGTTACATCCACCTTGTGTT 488

Qy 160 TAAGTGACCAAGGGATTACCAATTATTTGGGTGATTTGATTTGGGATTTCC 219
 Db 487 TCACTGTGTGGATTGTGTGTTGTTGATGTTGATGTTGATGAGCTT---- 432

Qy 220 CTCCACTTGGATTAGTCGGCCGAAGTCTGGTATTAATTCATCACTAACTAAGAAA 279
 Db 431 -----CCTCCATTGGTGGGCTGATTCATGGGATGTTAAATCTCATCAAAAGAGA 377

Qy 280 TGTCCAGAATCTAATGTTGACTGTTGACTGGCTCAAGGCCATCTGGCTAGGGTGTGCTG 339
 Db 376 TGTGCAAAAGTC----CTGATGGGTTGATTAAGTGCACATTCACCTAAAGTGTAGGTG 320

Qy 340 GTTGGCCACCCGGTCACTGGAGAACCCACAAATCACCCTCATGCGAACCTC 399
 Db 319 CTTTTCATGCCCTGACATCCGGTCACTGGCTCCACTTCGAAATTAACCTC 260

Qy 400 TACCAACCCATGAAAGTTACATCCAGTGAACCCCATATACTGGCATGAGCCCC 459
 Db 259 GGCCATCTGCCATGAAAGTTGCAATGGTGGACTTGCACCTGACTTCTCTG 200

Qy 460 TAGGGCATATGCCACATTGGCCGGATGAAACGTCGGACCCCTTGGGGT 519
 Db 199 GGTTGCAATTAATGGTCCCAAGATGGCTGGCCCTGGCTAACCT-GGAGA 142

Qy 520 CGATCGGCCAAACGATGATGGACAGTGTGGTACCTCGATAGTGGCAGCATAGT 579

Db 141 GCCCGGCCAGACTGTAGGTGATTCGAAATGTCGAAAGTCAGATGCT 82
 Qy 580 GAAACTCAAA 591
 Db 81 AACGCTCAAA 70

RESULT 11
 US-08-444-803-4/c
 Sequence 4, Application US/08444803
 Patent No. 5654414
 GENERAL INFORMATION:
 APPLICANT: Ryals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Meins, Jr., Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhaus, Jean-Marc
 APPLICANT: Payne, George B.
 APPLICANT: Spierson, Christopher
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Uknes, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Willians, Sherica C.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
 NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10532

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: -IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25

CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/444, 803
 FILING DATE: 19-MAY-1995
 CLASSIFICATION: 536
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/181,271
 FILING DATE: 13-JAN-94
 APPLICATION NUMBER: US 08/093, 301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937, 197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678, 378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/305, 566
 FILING DATE: 6-FEB-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165, 667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042, 847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632, 441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT 1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/368,672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329,018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045,957
 FILING DATE: 12-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Elmer, James Scott
 REGISTRATION NUMBER: 36,129
 REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (919)541-8614
 TELEFAX: (919)541-8689
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 900 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: Single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-444-803-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
 Best Local Similarity 60.5%; Pred. No. 2.7e-28; Gaps 4;
 Matches 334; Conservative 0; Mismatches 198; Indels 20;

Qy 46 GGATCTTGTGATGAAATGGAAAGAACGTAGGACCAT-----GGACCTGGG 99
 Db 607 GGCGATTCCTTCCTTAAATCTCCAAATCAGTGGCCACATGATCCGGCCATTG 548

Qy 100 TGCACAAATGGTCTCCAAATGGTGTACAGGATTGTGTACATCTCGGGTACT 159
 Db 547 TACACAAATATTCTGGTTTATACAGTACATGGTTGTACATCCACCTTGTT 488

Qy 160 TAACTGACCGGGCATCACCATTATTCGGGTGATGAAATTGGCTTC 219
 Db 487 TCACTGTCGGCATGTTGGTCAAGTACGCTAGGATTCAGGATACGATC-----432

Qy 220 CTCCACCTTGATGATCGGGCGAAAGTCATCGGTATATAATCCTAACAAAGAAA 279
 Db 431 -----CCCTCCATTGTCGGCTGTAATTCATGGGGATGTTAAATCCTAACAGAGAGA 377

Qy 280 TGTCACGAAATCTAAGTGTGAATCTGGCTAACCTGAAATTCAGCTAAAGTGTAGGTG 339
 Db 376 TGTCACGAAATCTAAGTGTGAATCTGGCTAACCTGAAATTCAGCTAAAGTGTAGGTG 320

Qy 340 GTTGGCCACCCGCTGCACTGCAAGCACCAATCACCACATGCAGACCTC 399
 Db 319 CTTTCCATAGCTTGAACATCCGGTACAGTCCTGGCTCACAAATTACCTC 260

Qy 400 TACCGACCATGAAAGTACATCCAGTACGACCCATATCCCTGCAATCGTAGTGGCCC 459
 Db 259 GGCGATTCCTTCCTTAAATGGTGTGCAATTGGTGTGACCTGGACTGTCCTG 200

Qy 460 TAGGGCCTAACTGCCAACATGTCGGCCGATGAAAGTCGGCTTGGGGT 519
 Db 199 GGTCACATTAATGTCCTAACATGGCTGAGTCAGGCGCTGAGTCAGTCACCTC 142

Qy 520 CGATCGGCCAAACGATATGTCGAACTGTTGGTACTCTGATAGTCGACGATAAGT 579

RESULT 12
 US-08-449-043-4/c
 Sequence 4, Application US/08449043
 Patent No. 569044
 GENERAL INFORMATION:
 APPLICANT: Rivals, John A.
 APPLICANT: Alexander, Danny C.
 APPLICANT: Beck, James J.
 APPLICANT: Duesing, John H.
 APPLICANT: Friedrich, Leslie B.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Harms, Christian
 APPLICANT: Meins, Jr. Frederick
 APPLICANT: Montoya, Alice
 APPLICANT: Moyer, Mary B.
 APPLICANT: Neuhau, Jean-Marc
 APPLICANT: Payne, George B.
 APPLICANT: Spersson, Christoph
 APPLICANT: Stinson, Jeffrey R.
 APPLICANT: Urnes, Scott J.
 APPLICANT: Ward, Eric R.
 APPLICANT: Williams, Sherica C.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
 NUMBER OF SEQUENCES: 106
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 STREET: 7 Skyline Drive
 CITY: Hawthorne
 STATE: New York
 COUNTRY: USA
 ZIP: 10532
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/449,043
 FILING DATE: 24-JAY-1995
 CLASSIFICATION: 800
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/181,271
 FILING DATE: 13-JAN-94
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678,378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632,441
 FILING DATE: 11-DEC-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632,441
 FILING DATE: 11-DEC-1990

RESULT 13
 US-08-456-265A-4/c
 Sequence 4, Application US/08456265A
 Patent No. 5767369

GENERAL INFORMATION:
 APPLICANT: Alexander, Danny C.
 APPLICANT: Ryals, John A.
 APPLICANT: Goodman, Robert M.
 APPLICANT: Swinson, Jeffrey R.
 TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC
 TITLE OF INVENTION: DNA SEQUENCES AND USES THEREOF
 NUMBER OF SEQUENCES: 111
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: CIBA-GEIGY Corporation
 STREET: 520 White Plains Road, P.O. Box 2005
 CITY: Tarrytown
 STATE: New York
 COUNTRY: USA
 ZIP: 10591

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patentin Release #1.0, Version #1.25
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/456,265A
 FILING DATE: 31-MAY-95
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/181,271
 FILING DATE: 13-JAN-1994
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/093,301
 FILING DATE: 16-JUL-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/937,197
 FILING DATE: 6-NOV-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/678,378
 FILING DATE: 1-APR-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/305,566
 FILING DATE: 6-FEB-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/165,667
 FILING DATE: 8-MAR-1988
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/042,847
 FILING DATE: 6-APR-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/632,441
 FILING DATE: 21-DEC-1990
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/425,504
 FILING DATE: 20-OCT-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/848,506
 FILING DATE: 6-MAR-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/768,122
 FILING DATE: 27-SEP-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/580,431
 FILING DATE: 7-SEP-1990
 PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/3368, 672
 FILING DATE: 20-JUN-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 07/329, 018
 FILING DATE: 24-MAR-1989
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US 08/045, 957
 FILING DATE: 12-APR-1993
 ATTORNEY/AGENT INFORMATION:
 NAME: Meigs, J. Timothy
 REGISTRATION NUMBER: 38, 241
 REFERENCE/DOCKET NUMBER: S-19825/1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (919)541-8587
 TELEFAX: (919)541-8669
 INFORMATION FOR SEQ ID NO: 4:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 900 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-456-265A-4

Query Match Score 11.9%
 Best Local Similarity 60.5%; Pred. No. 0; Mismatch 0;
 Matches 334; Conservative

Query	Subject	Score
Qy	46 GGTATCTTGTGTTGAAAAAATTGGAAAAAA	11.9
Db	607 GGCACTTTCCTTAAAAATCTCAGAAC	11.9
Qy	100 TGCACCATATTTGTGTCCTCCAAATG	11.9
Db	547 TACACCATATTCATGGTTTATCAG	11.9
Qy	160 TAAGTGACCGGGATCACCATTAA	11.9
Db	487 TCACTGTGTGGCATGTTCGTTAA	11.9
Qy	220 CTCCACTGGATTAACTGGCGGAAAGG	11.9
Db	431 -----CTCCATTGTGGCTGATT	11.9
Qy	280 TGTCCAGAAATCTAAGTGTGAACTG	11.9
Db	376 TGTGACAAAGTC---CTGATTCGCTT	11.9
Qy	340 GTTGGCCACCCGGTGCAGTCGAGGA	11.9
Db	319 CTTTTCATAGCCTGACACTCTAACAT	11.9
Qy	400 TACCGACCATCGAAGTGTACATCCAG	11.9
Db	259 GGCCACTGCACTGAGTGGCAATTGGG	11.9
Qy	460 TAGGGCATCAATGCCACATTTGGCC	11.9
Db	199 GGTTCACTTAATGTCTCAAGATGGCC	11.9
Qy	520 CGATGGCGCCAAAGATGTTATGCCAA	11.9
Db	141 GGCGCGCCAGACTGTAGGTGCAAT	11.9
Qy	580 GAAACTCACAAA 591	11.9
Db	81 AACAGCTACAAA 70	11.9

RESULT 14
 US-08-456-416-4/c
 Sequence 4, Application US/08455416
 Patent No. 577200

GENERAL INFORMATION:

APPLICANT: Ryale, John A.

APPLICANT: Alexander, Danny C.

APPLICANT: Beck, James J.

APPLICANT: Duesing, John H.

APPLICANT: Friedlich, Leslie B.

APPLICANT: Goodman, Robert M.

APPLICANT: Harms, Christian

APPLICANT: Meins, Jr., Frederick

APPLICANT: Montoya, Alice

APPLICANT: Moyer, Mary B.

APPLICANT: Neuhaus, Jean Marc

APPLICANT: Payne, George B.

APPLICANT: Sperison, Christoph

APPLICANT: Stinson, Jeffrey R.

APPLICANT: Uknas, Scott J.

APPLICANT: Ward, Eric R.

APPLICANT: Williams, Sharicca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC

NUMBER OF SEQUENCES: DNA SEQUENCES AND USES THEREOF

CORRESPONDENCE ADDRESS:

ADDRESS: CIBA-GEIGY Corporation

STREET: 7 Skyline Drive

CITY: Hawthorne

STATE: New York

ZIP: 10532

COMPUTER READABLE FORM:

COMPUTER TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US 08/455,416

FILING DATE: 31-MAY-1995

CLASSIFICATION: 800

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/181,271

FILING DATE: 13-JAN-94

APPLICATION NUMBER: US 08/093,301

FILING DATE: 16-JUL-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/937,197

FILING DATE: 6-NOV-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/678,378

FILING DATE: 1-APR-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/305,566

FILING DATE: 6-FEB-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/165,667

FILING DATE: 8-MAR-1988

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/042,847

FILING DATE: 6-APR-1993

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/632,441

FILING DATE: 21-DEC-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/425,504

FILING DATE: 20-OCT-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/848,506

FILING DATE: 6-MAR-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/580,431

FILING DATE: 7-SEP-1990

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,572

FILING DATE: 20-JUN-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/329,018

FILING DATE: 24-MAR-1989

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/045,957

FILING DATE: 12-APR-1993

ATTORNEY/AGENT INFORMATION:

NAME: Elmer, James Scott

REGISTRATION NUMBER: 36,129

REFERENCE/DOCKET NUMBER: S-19825/P1/CGC 1727

TELECOMMUNICATION INFORMATION:

TELEPHONE: (919)541-8614

TELEFAX: (919)541-8689

INFORMATION FOR SEQ ID NO: 4:

SEQUENCE CHARACTERISTICS:

LENGTH: 900 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: cDNA

US-08-455-416-4

Query Match 9 7%; Score 155.2; DB 1; Length 900;

Best Local Similarity 60 5%; Pred. No. 2.7e-28;

Matches 334; Conservative 0; Mismatches 198; Indels 20; Gaps 4;

Qy 46 GGTATCTTGTGAAAATTGGAAAAAGAACGTAGGACCAT-----GGACCTGGG 99

Db 607 GGCATCTTCCTAAAAAATCTGAAAAATAGGCCACATGATCCAGCCATTTG 548

Qy 100 TGCACACATATGTTCTCCAAATGTTGACAGGATTTGATCTCCGGGACTT 159

Db 547 TACAACATATTCATGGTTTATCACAGTACATGGTTTACATCCACCTTGTT 488

Qy 160 TAAGTGACCAAGGATTCACTTATTAATTGCGATTGAAATTGTGCAATTTC 219

Db 487 TCACTGTGTCGGATTGTTGTAATAGTGCTGTGATTCAGGATTCACAT- 432

Qy 220 CTCCACTTGGATTATCGGGCGGAAGTCATGGTATAATTCACTAACTAAAGAA 279

Db 431 ----CCTCCATTTGTCGGGTGAATTCCATGGGATGTTAACCTCAAGAGA 377

Qy 280 TGTCCGAAATCTAAGTTGTTGAACTGCTGCAAGCTGTTGGTTGGT 339

Db 376 TGTGACAAGTC- -CTGATTGGTTGATAAGTCAAAATTGAGTAAGTGTAGGT 320

Qy 340 GTTGGCCCAACCGGTGACTGGAGAACACCAATCACCAGTCATGAGAACCTC 399

Db 319 CTTTCATGGCTTGAACATCTACATCCGGTCAAGTCTCCACATTAATACCTC 260

Qy 400 TACCAAGCCATGACCTGAACTGTTGACCCATATACCTGCACTGTCCTCC 459

Db 259 GGCCATGCCATGAGTGTGCAATTGTTCCACCCAAATGAGCTGACTGTCTCG 200

Qy 460 TAGGGCCTCATGACCTGACCCATTCGCGACCCGATCGAAACCTCGGACCCC 519

Db 199 GGTTCACTTATGCTCCAGATGGCTGAGTCAGTCAGCTGGCTCCACCT- -CGAGA 142

Qy 520 CGATGGCCAAACCATGATGGCAGTTGCTACCTCGATGTGGCAGCATTAAGT 579

Db 141 GGCCGGCCAGATGTPAGGTGATTTGACAATGTCAAATGTGAGCATGAGT 82

Qy 580 GAAAGTCACAA 591

Db 81 AACAGTCACAA 70

RESULT 15

US-08-455-244-4/c

; Sequence 4, Application US/08455244

; Patent No. 5789214

GENERAL INFORMATION:

APPLICANT: Ryals, John A.
APPLICANT: Alexander, Danny C.
APPLICANT: Beck, James J.
APPLICANT: Dusing, John H.
APPLICANT: Friedlich, Leslie B.
APPLICANT: Goodman, Robert M.
APPLICANT: Harts, Christian
APPLICANT: Meins, Jr., Frederick
APPLICANT: Montoya, Alice
APPLICANT: Moyer, Mary B.
APPLICANT: Neuhaus, Jean-Marc
APPLICANT: Payne, George B.
APPLICANT: Sperison, Christopher
APPLICANT: Stinson, Jeffrey R.
APPLICANT: Urnes, Scott J.
APPLICANT: Ward, Eric R.
APPLICANT: Williams, Shericca C.

TITLE OF INVENTION: CHEMICALLY REGULATABLE AND ANTI-PATHOGENIC DNA SEQUENCES AND USES THEREOF

NUMBER OF SEQUENCES: 106

CORRESPONDENCE ADDRESS:

ADDRESSEE: CIBA-GEIGY Corporation
STREET: 7 Skyline Drive
CITY: Hawthorne
STATE: New York
COUNTRY: USA
ZIP: 10532

COMPUTER READABLE FORM:

EDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US 08/455,244
FILING DATE: 31-MAY-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/181,271
FILING DATE: 13-JAN-94
APPLICATION NUMBER: US 08/093,301
FILING DATE: 16-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/937,197
FILING DATE: 6-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/678,378
FILING DATE: 1-APR-1991
PRIOR APPLICATION DATA:
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APPLICATION NUMBER: US 07/848,506
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FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/580,431
FILING DATE: 7-SEP-1990
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/368,672
FILING DATE: 20-JUN-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/329,018
FILING DATE: 24-MAR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/045,957
FILING DATE: 12-APR-1993
ATTORNEY/AGENT INFORMATION:
NAME: Elmer, James Scott
REGISTRATION NUMBER: 36,129
REFERENCE/DOCKET NUMBER: S-19825/PI/CGC 1727
TELECOMMUNICATION INFORMATION:
TELEPHONE: (919)541-8614
TELEFAX: (919)541-8619
INFORMATION FOR SEQ ID NO: 4:
SEQUENCE CHARACTERISTICS:
LENGTH: 900 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-455-244-4

Query Match 9.7%; Score 155.2; DB 1; Length 900;
Best Local Similarity 60.5%; Pred. No. 2.7e-28; Index 20; Gaps 4;
Matches 34; Conservative 0; Mismatches 198;

Qy 46 GGATCTTGTGTTGAAATAATTGAAAGAACGTGAGCCAT-----GGACCTTGGG 99
Db 607 GGCACTTTCCTTAAATCTGCAAAATCAGTAGGCCACATGATCCAGGGCCATTG 548

Qy 100 TGCACAAATAATTGTTGCTCTCCAAATGTGTTGACAGGATTGTTACATCCGGTACTT 159
Db 547 TACACAAATAATTCTGTTTATACAGTACATGGTTGTTACATCCACCTGTGTT 488

Qy 160 TAAGTGACCGGCCATTACCAATTATTTGCCGTCATTGAAATTGTTGCGATTGTCCTTCC 219
Db 487 TCACTGTCCTGGCATTTCGTAAATGGTTGTTGTCATGTCAGGAGTACAGAGT---- 432

Qy 220 CTCCACTTGGATTAGTCGGGCCAAAGTCATCGTATATAATCATACTAAAGAAA 279
Db 431 -----CCPTCATTTGTCGGCTGTAATTCCATGGGATGTTAAATCATAACAGAGAGA 377

Qy 280 TGTCCAGAAATTAAGTTGTTGAACTGTGTTGAACTGGTCAAGGCPACTCGCTAGGGTTGGPNC 339
Db 376 TGTGACAAAGTC--CTGATTGGTTGATTAGTGAATTCGTAAGTGTAGGTGTT 320

Qy 340 GTTGGCCCACCCGGCACTGCAAGGACACCAACATCACCAGTCATGCCAACTCCTC 399
Db 319 CTTTCCATAGCCCTGACCTTAACATCCGTTACATCCGTTACAAATTACCTC 260

Qy 400 TACGGCACCATTGAAAGTTACATCCAGTAGGCCATATACTGGCCATTCGTGTCCTGGCCC 459
Db 259 GGCCATGTGCTCATGCAAGTGCATATTGGTTGCAATTGGCCGCTGACTGTCCCTG 200

Qy 460 TAGGGCATCAATGCCACATTGGCCCGATGAAAGTGCACCCGGCTTCACCT--GGAGA 519
Db 199 GGTCACATTAGTCCTCAAGTTGGCTGAGTCGAGCTGCTGACTGTCCCTG 142

Qy 520 CGATGCGCCAAACGATGTTGCACTGCAAGTGTGCAAGTGTGCACTAATGCTG 579
Db 141 GGCGGGCCCAACTGTTGCAATGTCAAAGTGCAGCTGACTGTTGCAATGTC 82

Qy 580 GAAAGTCACAA 591
Db 81 AACGGCTACAA 70

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